SAMSUNG

User Manual

C23A550U / C27A550U

The color and the appearance may differ depending on product, and the specifications are subject to change without prior notice to improve the performance.

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Icons used in this manual

	The following images are for reference only. Real-life situations may differ from what is shown in the images.

Symbols for safety precautions

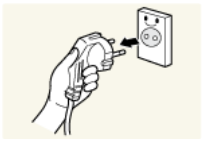
Warning	A serious or fatal injury may result if instructions are not followed.
Caution	Personal injury or damage to properties may result if instructions are not followed.
	Activities marked by this symbol are prohibited.
	Instructions marked by this symbol must be followed.

Cleaning

Cleaning

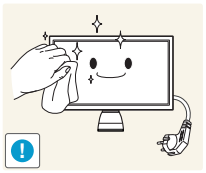
Exercise care when cleaning as the panel and exterior of advanced LCDs are easily scratched.

Take the following steps when cleaning.



1. Power off the monitor and computer.
2. Disconnect the power cord from the monitor.

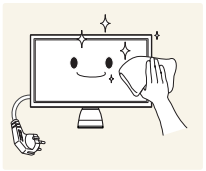
Hold the power cable by the plug and do not touch the cable with wet hands. Otherwise, an electric shock may result.



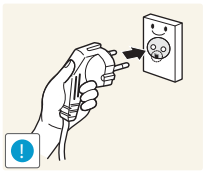
3. Wipe the monitor with a clean, soft and dry cloth.

- Do not apply a cleaning agent that contains alcohol, solvent, or surfactant to the monitor.

- Do not spray water or detergent directly on the product.



4. Wet a soft and dry cloth in water and wring thoroughly to clean the exterior of the monitor.

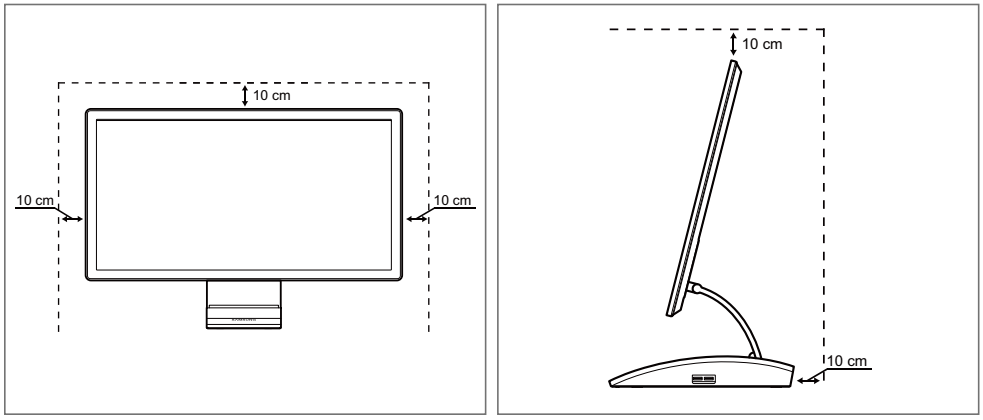


5. Connect the power cord to the product after cleaning the product.
6. Power on the monitor and computer.

Securing the Installation Space

- Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation. Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature.

The appearance may differ depending on the product.



Precautions for storage

High-glossy models can develop white stains on the surface if an ultrasonic wave humidifier is used nearby.

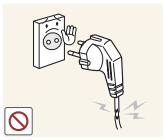
Be sure to contact Samsung Customer Service Center (page 81) if the inside of the monitor needs cleaning. (service fee will be charged).

Safety Precautions

Electricity and Safety

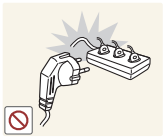
The following images are for reference only. Real-life situations may differ from what is shown in the images.

Warning



Do not use a damaged power cord or plug, or a loose power socket.

- An electric shock or fire may result.

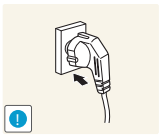


Do not plug many products into the same power socket.

- Otherwise, the socket may overheat and cause a fire.

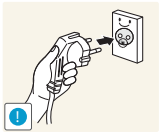
Do not touch the power plug with wet hands.

- Otherwise, an electric shock may result.



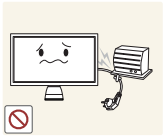
Insert the power plug all the way in so it is not loose.

- An unstable connection may cause a fire.



Connect the power plug to a grounded power socket (type 1 insulated devices only).

- An electric shock or injury may result.

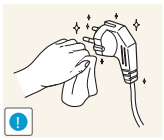


Do not bend or pull the power cord with force. Do not weigh the power cord down with a heavy object.

- A damaged power cord may cause an electric shock or fire.

Do not place the power cord or product near heat sources.

- An electric shock or fire may result.



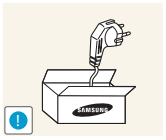
Remove foreign substances such as dust around the plug pins and power socket with a dry cloth.

- Otherwise, a fire may result.

Caution

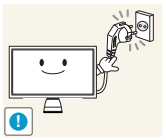
Do not unplug the power cord when the product is in use.

- The product may become damaged by an electric shock.



Do not use the power cord for products other than authorized products supplied by Samsung.

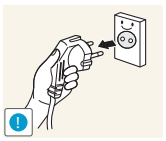
- An electric shock or fire may result.



Keep the power socket where the power cord is connected unobstructed.

- If any problem occurs in the product, unplug the power cable to completely cut the power to the product.

  Power to the product cannot be completely cut off with the power button.



Hold the plug when disconnecting the power cord from the power socket.

- An electric shock or fire may result.

Installation

Warning

DO NOT PLACE CANDLES, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES.

- Otherwise, a fire may result.

Avoid installing the product in a narrow space with bad ventilation, such as a bookshelf or wall closet.

- Otherwise, a fire may result due to an increased internal temperature.

Keep the plastic packaging bag for the product in a place that cannot be reached by children.

- Children may suffocate.

Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.).

- The product may fall and break or cause a personal injury.
- Using the product in an area with excess vibration may damage the product or cause a fire.

Do not install the product in a vehicle or a place exposed to dust, moisture (water drips, etc.), oil, or smoke.

- An electric shock or fire may result.

Do not expose the product to direct sunlight, heat, or a hot object such as a stove.

- Otherwise, the product lifespan may be reduced, or a fire may result.

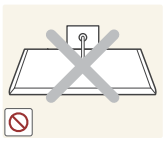
Do not install the product within the reach of young children.

- The product may fall and injure children.

Caution

Take care not to drop the product when moving it.

- Otherwise, product failure or personal injury may result.

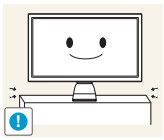


Do not set down the product on its front.

- The screen may become damaged.

When installing the product on a cabinet or shelf, make sure that the bottom edge of the front of the product is not protruding.

- The product may fall and break or cause a personal injury.
- Install the product only on cabinets or shelves of the right size.



Put down the product carefully.

- The product may fall and break or cause a personal injury.

Installing the product in an unusual place (a place exposed to a lot of fine particles, chemical substances or extreme temperatures, or an airport or train station where the product should operate continuously for an extended period of time) may seriously affect its performance.

- Be sure to consult Samsung Customer Service Center (page 81) before installation if you want to install the product at such a place.

Operation

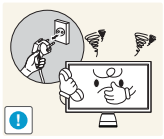
Warning

High voltage runs through the product. Do not attempt to disassemble, repair, or modify the product on your own.

- An electric shock or fire may result.
- Contact Samsung Customer Service Center (page 81) for repair.

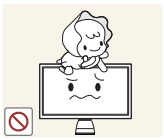
Before you move the product, be sure to turn off the power switch and remove all the cables connected to the product, including the power cord and the antenna cable.

- Otherwise, the power cord may be damaged and a fire or electric shock may result.



If the product generates a strange noise, a burning smell, or smoke, remove the power cord immediately and contact Samsung Customer Service Center (page 81).

- An electric shock or fire may result.



Do not let children hang from the product or climb on top of it.

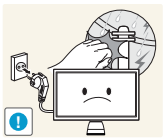
- The product may fall, and your child may become injured or seriously harmed.

If the product falls or the exterior is damaged, power off the product, remove the power cord, and contact Samsung Customer Service Center (page 81).

- Otherwise, an electric shock or fire may result.

Do not put a heavy object, toy, or sweets on top of the product.

- The product or heavy objects may fall as children try to reach for the toy or sweets resulting in a serious injury.

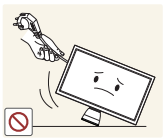


During a lightning or thunderstorm, remove the power cord and do not touch the antenna cable.

- An electric shock or fire may result.

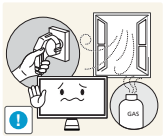
Do not drop objects on the product or apply impact.

- An electric shock or fire may result.



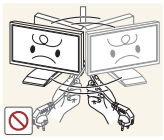
Do not move the product by pulling the power cord or any cable.

- Otherwise, the power cable may be damaged and product failure, an electric shock or fire may result.



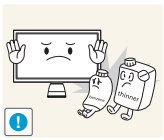
If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately.

- Sparks can cause an explosion or fire.
- During a lightning or thunderstorm, do not touch the power cord or antenna cable.



Do not lift or move the product by the power cord or any cable.

- Otherwise, the power cable may be damaged and product failure, an electric shock or fire may result.



Do not use or keep combustible spray or an inflammable substance near the product.

- An explosion or fire may result.

Ensure the vents are not blocked by tablecloths or curtains.

- Otherwise, a fire may result from an increased internal temperature.

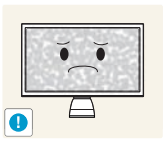
Do not insert a metallic object (a chopstick, coin, hair pin, etc.) or inflammable object (paper, match, etc.) into the vent or ports of the product.

- If water or any foreign substance enters the product, be sure to power off the product, remove the power cord, and contact Samsung Customer Service Center (page 81).
- Product failure, an electric shock or fire may result.

Do not place objects containing liquid (vases, pots, bottles, etc) or metallic objects on top of the product.

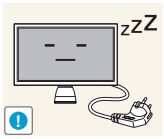
- If water or any foreign substance enters the product, be sure to power off the product, remove the power cord, and contact Samsung Customer Service Center (page 81).
- Product failure, an electric shock or fire may result.

Caution



Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.

- If you are not going to use the product for an extended period of time, activate power-saving mode or a moving-picture screen saver.

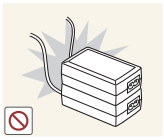


Disconnect the power cord from the power socket if you do not plan on using the product for an extended period of time (vacation, etc).

- Otherwise, a fire may result from accumulated dust, overheating, an electric shock, or electric leakage.

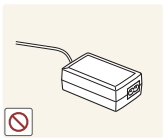
Use the product at the recommended resolution and frequency.

- Your eyesight may deteriorate.



Do not put DC power adapters together.

- Otherwise, a fire may result.



Remove the plastic bag from the DC power adapter before you use it.

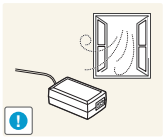
- Otherwise, a fire may result.

Do not let water enter the DC power device or get the device wet.

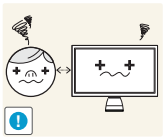
- An electric shock or fire may result.
- Avoid using the product outdoors where it can be exposed to rain or snow.
- Be careful not to get the DC power adapter wet when you wash the floor.

Do not put the DC power adapter near to any heating apparatus.

- Otherwise, a fire may result.



Keep the DC power adapter in a well-ventilated area.



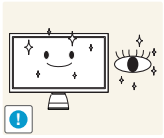
Looking at the screen too close for an extended period of time can deteriorate your eyesight.

Do not hold the monitor upside-down or move it by holding the stand.

- The product may fall and break or cause a personal injury.

Do not use humidifiers or stoves around the product.

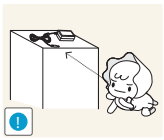
- An electric shock or fire may result.



Rest your eyes for more than 5 minutes for every 1 hour of product use.

- Eye fatigue will be relieved.

Do not touch the screen when the product has been turned on for an extended period of time as it will become hot.



Store the small accessories used with the product out of reach of children.

Exercise caution when adjusting the product angle or stand height.

- Otherwise, children's fingers or hands may become stuck and injured.
- Tilting the product excessively may cause it to fall and result in personal injury.

Do not place heavy objects on the product.

- Product failure or personal injure may result.

Correct posture to use the product

Use the product in the correct posture as follows:

- Straighten your back.
- Allow a distance of 45 to 50cm between your eye and the screen, and look slightly downward at the screen.

  Keep your eyes directly in front of the screen.
- Adjust the angle so light does not reflect on the screen.
- Keep your forearms perpendicular to your upper arms and level with the back of your hands.
- Keep your elbows at about a right angle.
- Adjust the height of the product so you can keep your knees bent at 90 degrees or more, your heels attached to the floor, and your arms lower than your heart.

Table Of Contents

BEFORE USING THE PRODUCT

2 **Copyright**
2 Icons used in this manual
2 Symbols for safety precautions

3 **Cleaning**
3 Cleaning
4 Securing the Installation Space
4 Precautions for storage

4 **Safety Precautions**
4 Electricity and Safety
6 Installation
8 Operation

12 **Correct posture to use the product**

PREPARATIONS

18 **Checking the Contents**
18 Removing the Packaging
19 Checking the Components

20 **Parts**
20 Frontal Buttons
22 Reverse Side
23 Left Side View
24 Right Side View
25 Adjusting the Product Tilt and Height

USING "CENTRAL STATION"

26 **About "Central Station"**

26 **Software Installation for Using "Central Station"**
26 Installing "SAMSUNG Central Station Setup"

27 **Connecting the Product to a PC to Use "Central Station"**
28 Connecting to a PC via the **USB** Cable

28 **Utilizing "Central Station"**
28 Using the Product as a **USB HUB**
30 Connecting to a **LAN**

Table Of Contents

30 **Configuring the Central Station Monitor IP**

31 Dynamic IP

32 Static IP

34 **Before using USB Mode**

CONNECTING AND USING A SOURCE DEVICE

35 **Before Connecting**

35 Pre-connection Checkpoints

36 **Connecting and Using a PC**

36 Connecting to a PC

38 Driver Installation

39 Setting Optimum Resolution

40 Changing the Resolution Using a PC

43 **Connecting to a Video Device**

43 Connection Using an HDMI Cable

43 **Connecting Headphones**

SCREEN SETUP

44 **MAGIC**

44 **SAMSUNG MAGIC Angle**

45 **SAMSUNG MAGIC Bright**

46 **SAMSUNG MAGIC Color**

47 **Brightness**

47 Configuring **Brightness**

48 **Contrast**

48 Configuring **Contrast**

48 **Sharpness**

48 Configuring **Sharpness**

49 **Coarse**

49 Adjusting **Coarse**

50 **Fine**

50 Adjusting **Fine**

Table Of Contents

50 Response Time
50 Configuring **Response Time**

51 HDMI Black Level

CONFIGURING TINT

52 Red
52 Configuring **Red**

52 Green
52 Configuring **Green**

53 Blue
53 Configuring **Blue**

54 Color Tone
54 Configuring the **Color Tone** Settings

55 Gamma
55 Configuring **Gamma**

RESIZING OR RELOCATING THE SCREEN

56 Auto Adjustment
56 Configuring the **Auto Adjustment** Settings

56 Size
56 Changing the Picture **Size**

57 Horizontal Position
57 Configuring **H-Position**

58 Vertical Position
58 Configuring **V-Position**

59 Menu H-Position
59 Configuring **Menu H-Position**

60 Menu V-Position
60 Configuring **Menu V-Position**

Table Of Contents

SETUP AND RESET

61 HUB
61 USB Connection
61 Analog
62 HDMI
63 USB Super Charging

63 Eco Saving
63 Configuring **Eco Saving**

65 Menu Transparency
65 Changing **Menu Transparency**

65 Language
65 Changing the **Language**

66 PC/AV Mode
66 Configuring **PC/AV Mode**

67 Auto Source
67 Configuring **Auto Source**

67 Display Time
67 Configuring **Display Time**

68 Key Repeat Time
68 Configuring **Key Repeat Time**

69 Off Timer On/Off
69 Configuring **Off Timer On/Off**

69 Off Timer Setting
69 Configuring **Off Timer Setting**

70 Reset
70 Initializing Settings (**Reset**)

INFORMATION MENU AND OTHERS

71 INFORMATION
71 Displaying **INFORMATION**

71 Configuring Brightness in the Startup Screen

Table Of Contents

72 Configuring Volume in the Startup Screen

72 Configuring HUB in the Initial Screen

TROUBLESHOOTING GUIDE

73 Requirements Before Contacting Samsung Customer Service Center

73 Testing the Product

73 Checking the Resolution and Frequency

73 Check the followings.

76 Q & A

SPECIFICATIONS

78 General

79 PowerSaver

80 Standard Signal Mode Table

APPENDIX

81 Contact SAMSUNG WORLDWIDE

83 Terminology

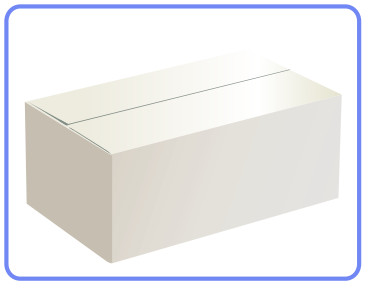
INDEX

1 Preparations

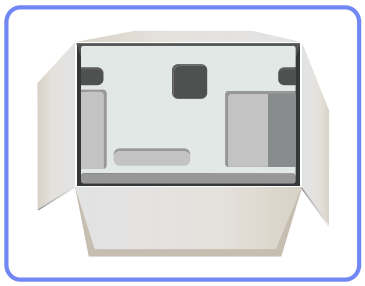
1.1 Checking the Contents

1.1.1 Removing the Packaging

1 Open the packaging box. Be careful not to damage the product when you open the packaging with a sharp instrument.

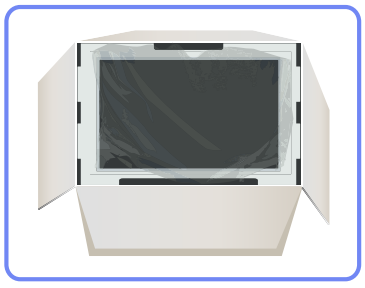


2 Remove the Styrofoam from the product.



3 Check the components and remove the Styrofoam and plastic bag.

- The appearance of actual components may differ from the image shown.
- This image is for reference only.

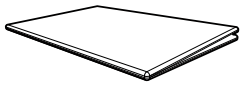


4 Store the box in a dry area so that it can be used when moving the product in the future.

1.1.2 Checking the Components

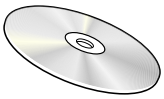
- Contact the dealer from whom you purchased the product if any item is missing.
- The appearance of the components and items sold separately may differ from the image shown.

Components

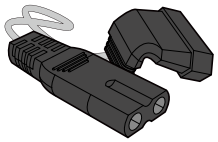


Quick Setup Guide

Warranty Card
(Not available in some locations)

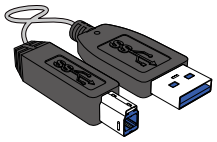


User Manual

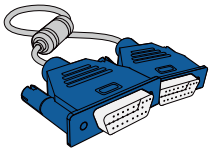


Power cable

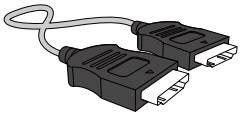
DC power adapter



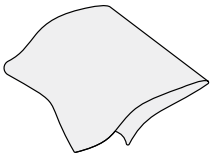
USB 3.0 cable



D-SUB cable



HDMI cable (optionally)

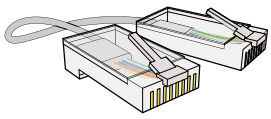


Cleaning cloth

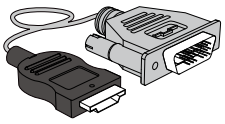
- Components may differ in different locations.
- The cleaning cloth is only supplied with the black high-glossy model.

Items sold separately

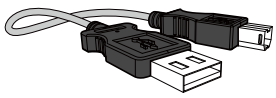
The following items can be purchased at your nearest retailer.



LAN cable



HDMI-DVI cable

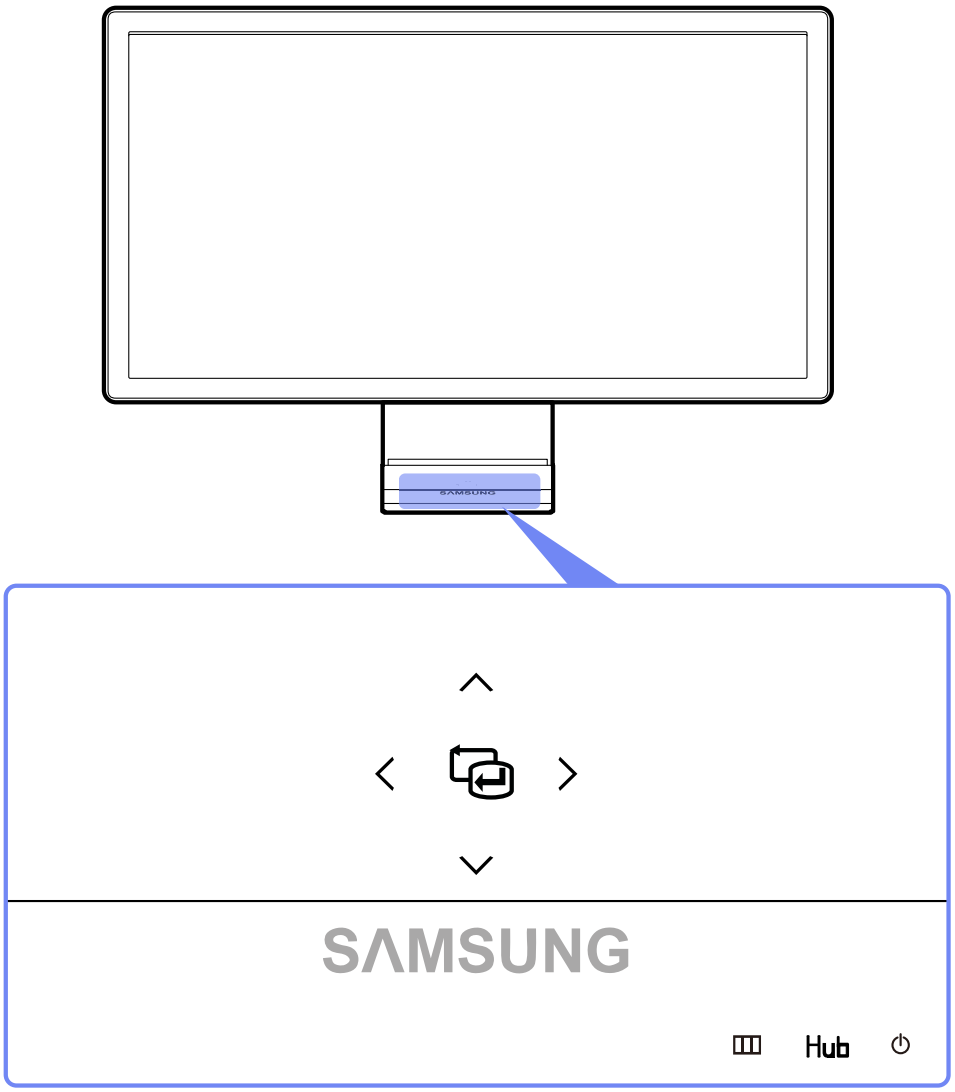


USB cable

1.2 Parts

1.2.1 Frontal Buttons

- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.
- This is a touch-type button. Tap the button lightly with a finger.
- The printed board assembly (PBA) inside this product may heat the stand. A hot stand does not indicate a problem with the product.

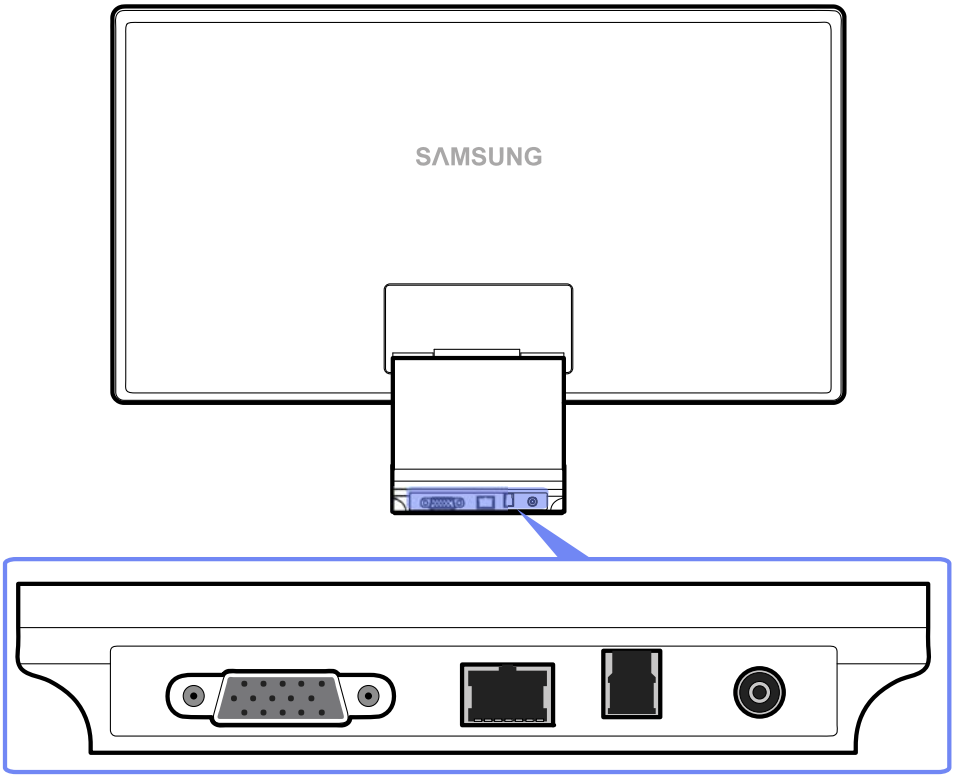


- If the MENU button is not visible, lightly tap the area around the [⏻] button. The MENU button will become visible.
- The onscreen display menu only appears when the MENU button light is lit.
- The lit MENU button light will automatically turn off after 10 seconds.

Icons	Description
	• Open or close the onscreen display (OSD) menu, or return to the last menu. • OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings. To lock the OSD control, press the MENU button [ ] for five seconds. To unlock the locked OSD control, press the MENU button [ ] for more than five seconds. The **Brightness** and **Contrast** can be adjusted and **Information** can be viewed even when the OSD control is locked.
Hub	Open the HUB settings screen (see "**HUB**" in **SETUP&RESET**). To hide the **HUB** screen, press the [Hub] or [ ] button.
	Turn the screen on or off. The power indicator will be lit when the product is operating normally. • Refer to "10.2 PowerSaver" for details about the power-saving function. • To reduce power consumption, it is best to remove the power cable when you will not be using the product for an extended period of time.
	Confirm a menu selection. Pressing the [ ] button when the OSD menu is not displayed will change the input source (**Analog**/**HDMI**/**USB**). If you power on the product or change the input source by pressing the [ ] button, a message that shows the changed input source will appear at the top left corner of the screen. • This function is not available with any product that supports an **Analog** interface only. • If the [ ] button blinks abnormally, there may be a problem in the operation of the fan inside the product. If the problem persists for more than 10 minutes, consult your nearest customer service center.
^/v	Move to the upper or lower menu or adjust the value for an option on the OSD menu.
</>	Move to the left or right menu or adjust the value for an option on the OSD menu.

1.2.2 Reverse Side

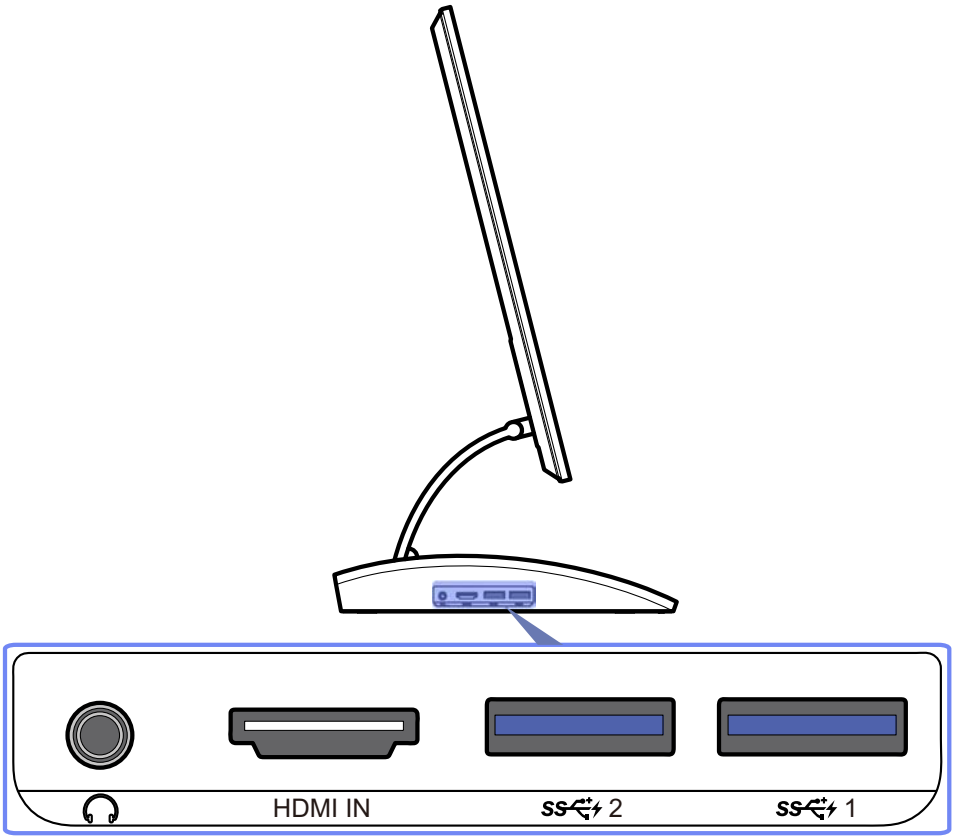
The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



Port	Description
	Connects to a PC using the D-SUB cable.
	Connects to a network using the LAN cable.
	Connects to a PC via a USB cable. This port can only connect to a PC.
	Connects to the DC power adapter.

1.2.3 Left Side View

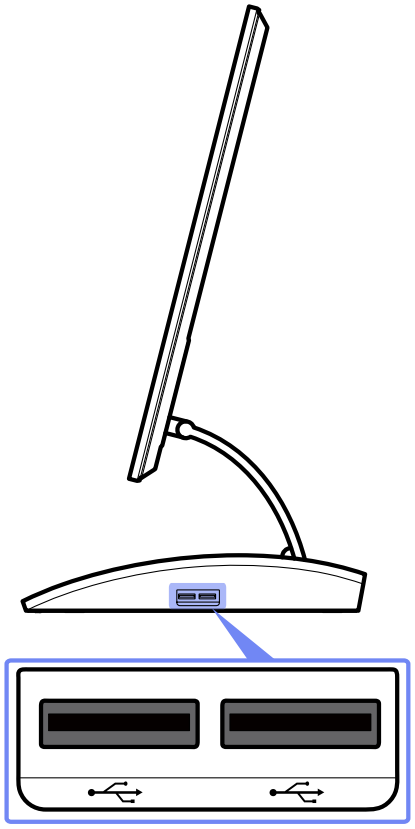
The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



Port	Description
🎧	Connects to an audio output device such as headphones.
HDMI IN	Connects to a source device using an HDMI cable.
SS 2 / SS 1	Connects to a source device via a USB cable. Compatible with a USB cable version 3.0 or lower. • The USB 3.0 port is **blue** in color. • If **1 port** is selected for **USB Super Charging**, only the [SS 1] port is enabled.

1.2.4 Right Side View

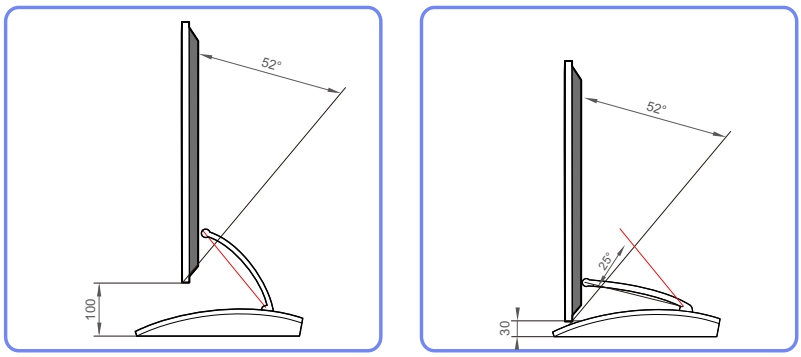
The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



Port	Description
	Connects to a source device via a USB cable. Compatible with a USB cable version 2.0 or lower. The USB 2.0 port is **black** in color.

1.2.5 Adjusting the Product Tilt and Height

The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



- The monitor tilt and height can be adjusted.
- Hold the top center of the product and adjust the tilt carefully.

2 Using "Central Station"

You can use "Central Station" function by connecting the product to a PC through a USB cable. "Central Station" system allows the product to function as a HUB so that you can connect a device directly to the product to control the device from the product without having to connect the device to a PC.

2.1 About "Central Station"

"Central Station" is a HUB system developed independently by Samsung and allows you to conveniently control a notebook PC that has a small screen and a limited number of input/output ports available.

Notebook or netbook computers offer portability but may prove inconvenient when used at the office or at home due to the limited number of functions available. Connecting a notebook PC to this product, which has the "Central Station" function, allows you to view the small notebook PC screen on a larger screen. With the HUB function, you can control multiple devices at the same time from the notebook PC, even if the notebook PC has a limited number of input/output ports.

You can also use triple monitors by configuring the display settings.

2.2 Software Installation for Using "Central Station"

Install on your PC the software provided with the product.

To maximize the performance of your Central Station monitor, visit www.samsung.com and upgrade the driver periodically.

2.2.1 Installing "SAMSUNG Central Station Setup"

This software is needed to use the Central Station function. Software installation may be affected by the graphics card, motherboard, or network conditions of the PC.

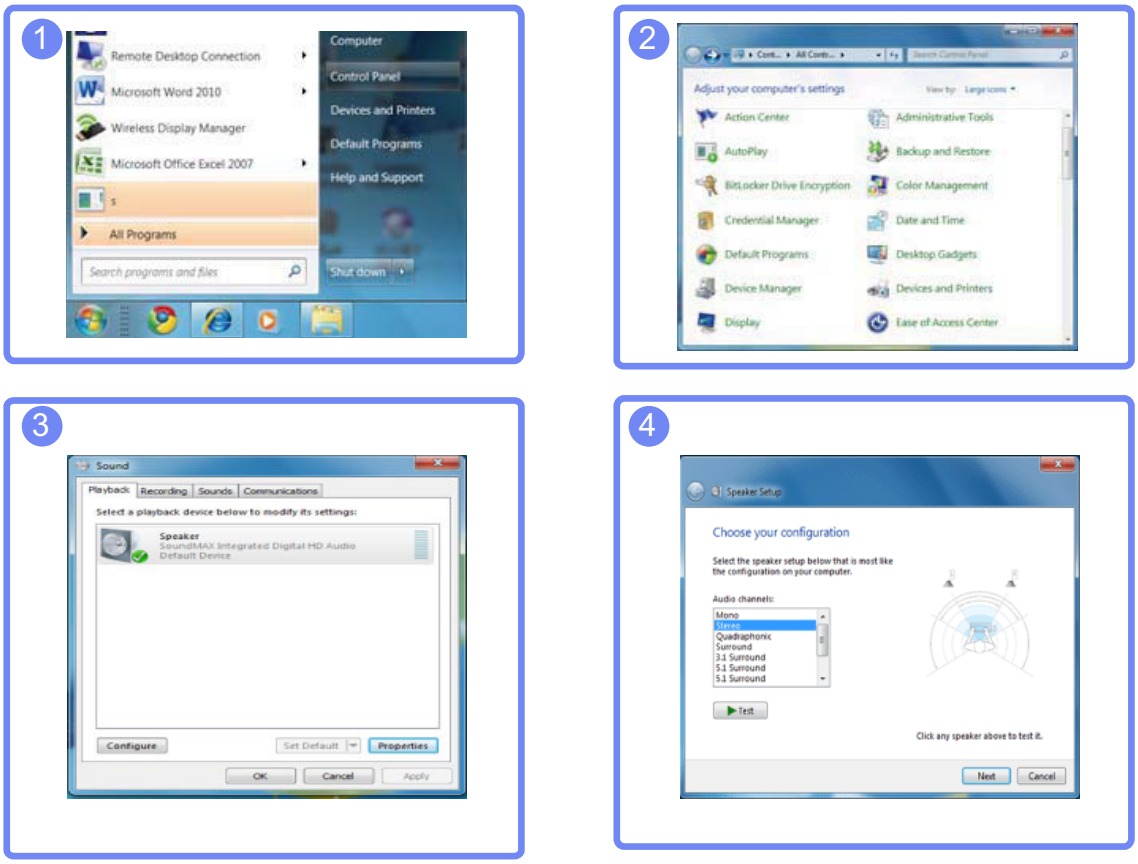
1. Insert the installation CD into the CD-ROM drive.
2. Click the "SAMSUNG Central Station Setup" installation program.

   If a software installation window does not appear in the main screen, install using the "CA550U_Central_Station.exe" execution file on the CD-ROM.

3. Follow the instructions given on the screen to proceed with installation.

4 After installing the integrated PC driver "Samsung Central Station Setup," customize the audio output port settings as required.

(Control Panel->Audio->Speakers->Speaker Setting)



2.3 Connecting the Product to a PC to Use "Central Station"

To use the product, connect the product to a PC using the USB cable.

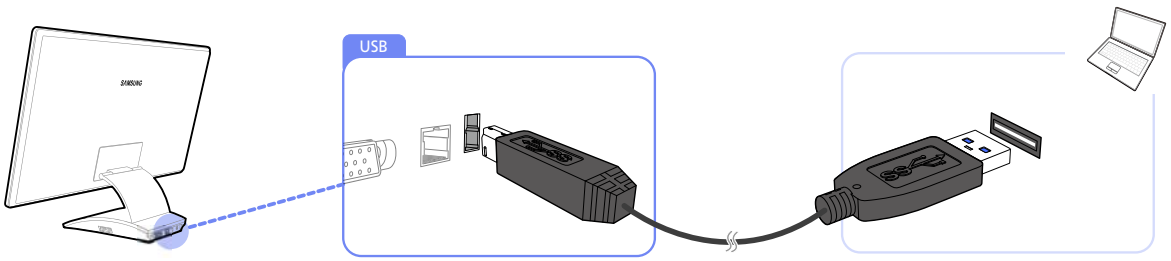
Connecting the product and PC using the USB cable will allow you to hear audio when you plug an audio output device such as headphones or speakers into the [🎧] port on the product.

If a PC is connected, the product will automatically switch to the mode of the detected input source. If several source devices are connected to the product, the input source will automatically change according to this priority, from left to right: **Analog** mode > **HDMI** mode> **USB** mode.

If the product connects to a PC for the first time, the optimum resolution (1920 x 1080) will be selected automatically and a message will appear confirming that you want to set the display to extended mode. The same resolution will be applied from the next time the product connects to the PC.

When multiple display output ports on the PC are connected to the Central Station monitor, different signals may output depending on the system specifications of the PC.

2.3.1 Connecting to a PC via the USB Cable



Connect the USB cable to [ ] on the back of the product and USB [ ] on the PC.

The product is compatible with a USB 2.0 cable. However, it is best to use a USB 3.0 cable for the product to function fully.

Connecting to a PC using the USB cable

1. Connect a desktop PC to the product using the USB cable.
2. Press [ ] to change the input source for the product to **USB** mode.
3. The product will display the PC screen if the connection is established.

Automatic/manual USB cable connection

The input source will automatically change to **USB** mode if a USB cable connects to the product and a PC. If the input source does not switch to **USB** mode automatically, press [ ] to switch to **USB** mode.

2.4 Utilizing "Central Station"

Central Station is only available when the product is connected to a PC through a USB cable.

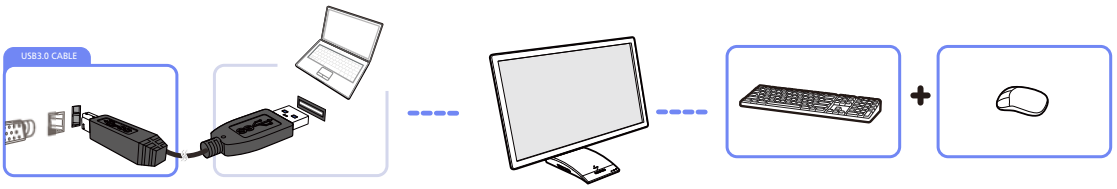
2.4.1 Using the Product as a USB HUB

Using the product as a hub, connect and use various source devices with the product at the same time.

A PC cannot connect to multiple source devices at the same time as it has a limited number of input/output ports available. The HUB feature on the product will improve your work efficiency by allowing you to connect multiple source devices to the USB ports on the product at the same time without connecting them to a PC.

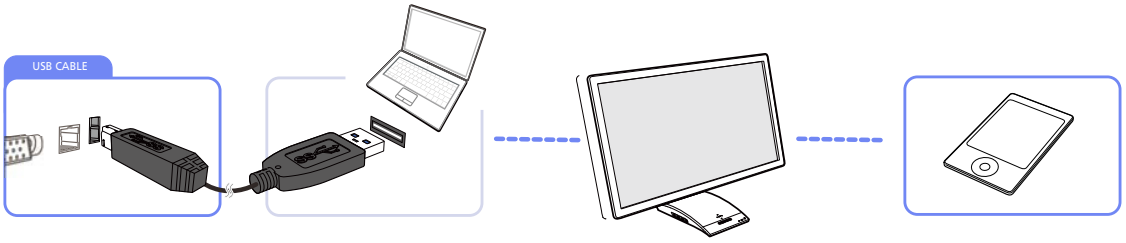
- The product is compatible with a USB 2.0 cable. However, your PC should support USB 3.0 for the HUB function to work fully.
- If you experience a communication problem with a PC that provides the USB 3.0 function, download and install the latest driver version from the PC manufacturer.

Using the Product as a USB HUB



If multiple source devices are connected to the PC, the many cables around the PC may look messy. Connecting the devices directly to the product will resolve such inconvenience.

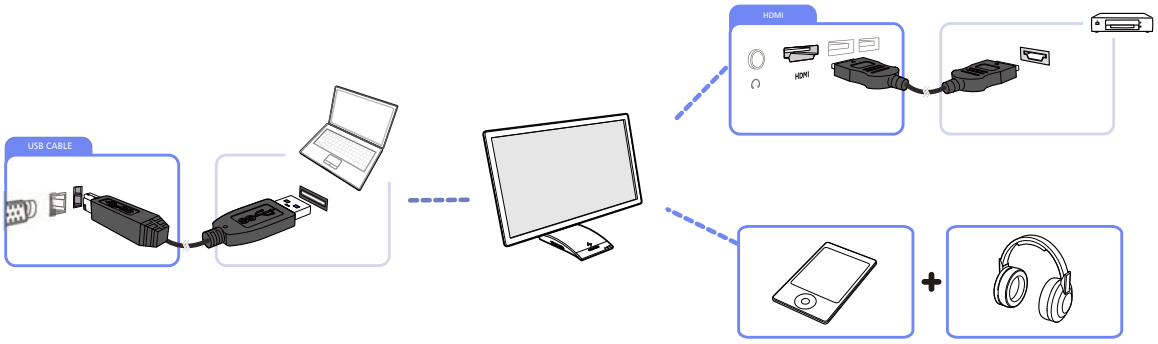
- To detect and start a source device faster, connect the device to the blue USB 3.0 port on the left side of the product.
- An external mass-storage HDD requires external power supply. Be sure to connect it to a power source.



Connect a mobile IT device such as an MP3 player or smart phone to the product when connected to a PC. This allows you to use the device from the PC or charge the battery on the device.

- To charge the battery of a device, be sure to connect the device to the blue USB 3.0 port on the left side of the product.
- Battery charging is available in power-saving mode, but not available when the product is powered off.

Note that the battery will not be charged if the power cable is disconnected from the power socket.



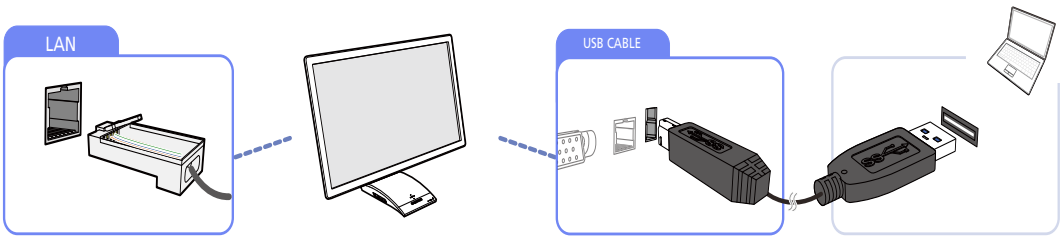
Connect multiple source devices to the product and use the device you want by changing the input source.

2.4.2 Connecting to a LAN

"Central Station" allows you to use the Internet from a PC when you connect a LAN cable to the product (if the product is connected to the PC), without having to connect the LAN cable directly to the PC.

This is achieved by an internal chip that transmits data received via the LAN cable to the PC as a converted USB signal.

Connecting to a LAN via USB cable



This product cannot connect to multiple source PCs at the same time and vice versa.

2.5 Configuring the Central Station Monitor IP

1. After installing the integrated driver for Central Station monitors, go to **Control Panel** → **Network and Internet** → **Network and Sharing Center** → Change adapter settings.
2. You can see that the following two devices are displayed.
   a. The user PC's network device
   b. The Central Station monitor's network device (USB to Ethernet adapter)

   The two devices above refer to your PC's LAN network device and your Central Station monitor's network device.

To use the Internet using the Central Station monitor's LAN network, configure the network settings as follows according to the type of IP you will be using.

2.5.1 Dynamic IP

The dynamic IP address mode automatically configures the network settings on the PC using data sent by a server, which allots an IP address. This is possible, owing to the "DHCP (Dynamic Host Configuration Protocol)" service. The service consists of three steps: an IP address allotment request is sent to the DHCP server when the PC boots up, the DHCP server that received the request transmits network information such as the IP address to the PC, and the transmitted network information is automatically registered to the network settings on the PC. The DHCP service is convenient and useful especially in an environment where multiple PCs are used. Theoretically, the IP address changes each time the PC boots up (or an IP allotment request is sent); in many cases, however, the existing IP address is re-allotted. An Internet router performs two roles: creating a private IP address (NAT service) and automatically allotting the IP address to each PC (DHCP service) at the same time.

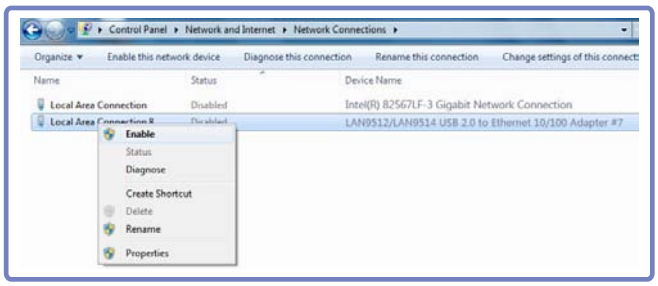
When using your Central Station monitor's or notebook PC's LAN network, ensure you insert a LAN cable into only one device. Otherwise, a system crash may occur.

Dynamic IP User

1 To use a dynamic IP address, connect a LAN to your Central Station monitor.

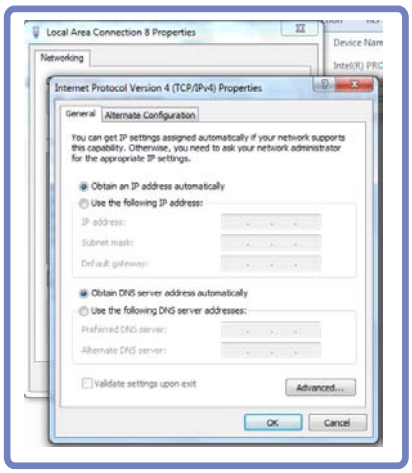
2 Next, go to the network settings menu and activate the Central Station monitor's network device (select "**Use**").

Go to **Control Panel** → **Network and Internet** → **Network and Sharing Center** → Change adapter settings. Next, right-click on the Central Station monitor's network device (marked "LAN9512/LAN9514 USB 2.0 to Ethernet 10/100 Adapter #7") and select **Use**.



3 Using the network properties menu, check that the IP address mode for the Central Station monitor's network device is set to **Auto**.

Go to **Control Panel** → **Network and Internet** → **Network and Sharing Center** → Change adapter settings. Next, right-click on the Central Station monitor's network device (marked "LAN9512/LAN9514 USB 2.0 to Ethernet 10/100 Adapter #7").


Local Area Connection 8 Properties
Networking
Internet Protocol Version 4 (TCP/IPv4) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

Select **Properties** → **Internet Protocol Version 4 (TCP/IPv4)** → **Properties**.

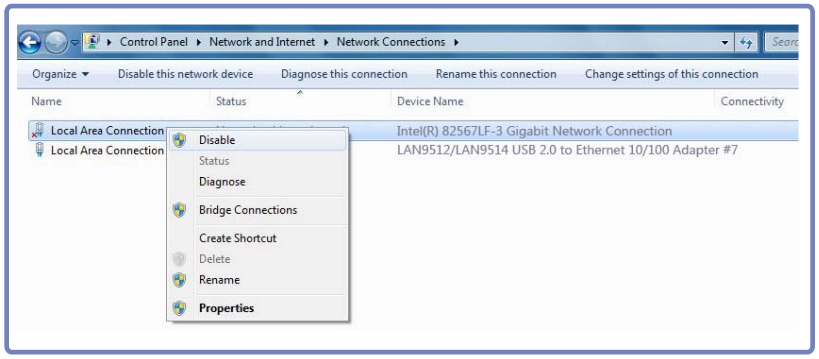
2.5.2 Static IP

To configure the IP address (private or official) on your PC, someone (mostly a server system) must distribute and allot an IP address to the PC. An official IP address is allotted by your Internet service provider, and a private IP address is allotted by your Internet router. You can select whether to configure the IP address on the PC automatically or manually. The static IP address mode is used to manually enter an IP address. The static IP address mode is suitable if the IP address for the PC should not be changed (such as for a file sharing server) and generally is not used, except under such special circumstances.

When using your Central Station monitor's or notebook PC's LAN network, ensure you insert a LAN cable into only one device. Otherwise, a system crash may occur.

Static IP User

1. Set the LAN network for the notebook PC to **Disable**.
2. Go to **Control Panel** → **Network and Internet** → **Network and Sharing Center** → Change adapter settings. Next, right-click on the notebook PC's network device and select **Disable**.

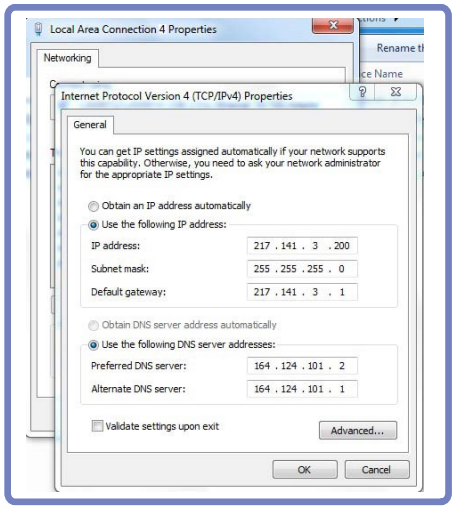


3 Right-click on the Central Station monitor's network device (marked "LAN9512/LAN9514 USB 2.0 to Ethernet 10/100 Adapter #7"), and select **Use**.

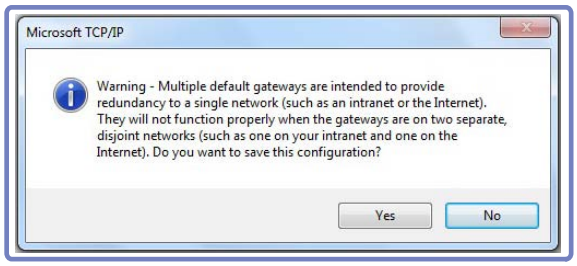
Be sure to perform this process before configuring the IP.

4 Configure the static IP. Assign the static IP that is allotted to the Central Station monitor's network device.

Go to **Control Panel** → **Network and Internet** → **Network and Sharing Center** → Change adapter settings. Next, right-click on the Central Station monitor's network device (marked "LAN9512/LAN9514 USB 2.0 to Ethernet 10/100 Adapter #7"), select **Properties** → **Internet Protocol Version 4 (TCP/IPv4)** → **Properties, and configure the static IP and DNS settings**.


Local Area Connection 4 Properties
Networking
Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 217 . 141 . 3 . 200
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 217 . 141 . 3 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 164 . 124 . 101 . 2
Alternate DNS server: 164 . 124 . 101 . 1
Validate settings upon exit
Advanced...
OK
Cancel

5 After configuring the IP, click **OK**. The following message will appear.

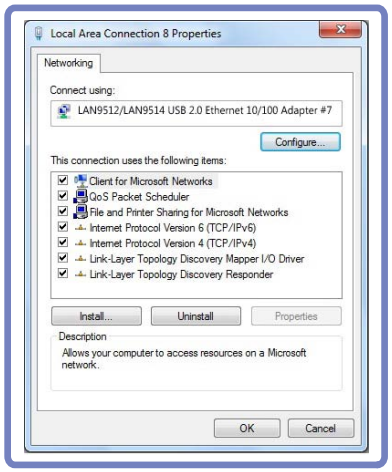

Microsoft TCP/IP
Warning - Multiple default gateways are intended to provide redundancy to a single network (such as an intranet or the Internet). They will not function properly when the gateways are on two separate, disjoint networks (such as one on your intranet and one on the Internet). Do you want to save this configuration?
Yes
No

A static IP must be allotted to only one network device. The following message will appear if the same static IP is allotted to the network devices of both the notebook PC and Central Station monitor. (Ensure the network device that is not in use is set to **Disable**.)

Select **No** in the message window.

To use the notebook PC's LAN network, set the Central Station monitor's network to **Disable** and the notebook PC's network device to **Use**. Next, configure the IP settings.

6 Click **Close**.



2.6 Before using USB Mode

1 Most of the games require high resolution and fast response time. When you play a game, we recommand to use **Analog** or **HDMI** Mode rather than **USB** Mode.

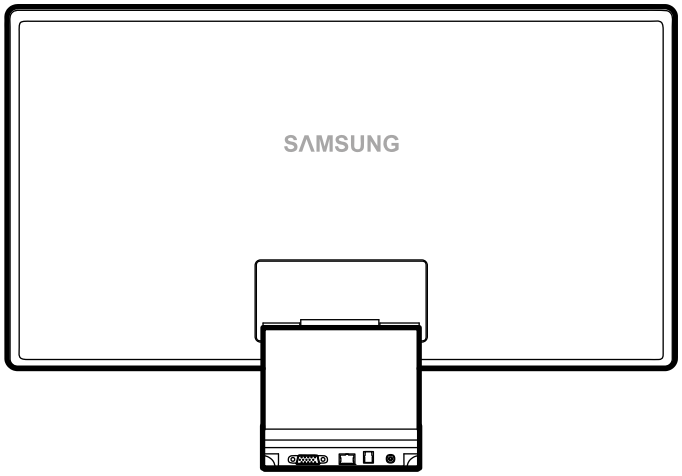
2 Also, for playing Game and Movie clips on Windows XP or VISTA is not supported.

3 It would take some time to connect to USB. Especially when you use them for the first time.

4 If it is **USB** Mode(USB2.0 supported by PC) , we recommend to connect to USB2.0 port for **USB HUB** function. (black colored connector)

3 Connecting and Using a Source Device

3.1 Before Connecting



3.1.1 Pre-connection Checkpoints

- Before connecting a source device, read the user manual provided with it.
  The number and locations of ports on source devices may differ from device to device.
- Do not connect the power cable until all connections are completed.
  Connecting the power cable during connection may damage the product.
- Check the types of ports at the back of the product you want to connect.

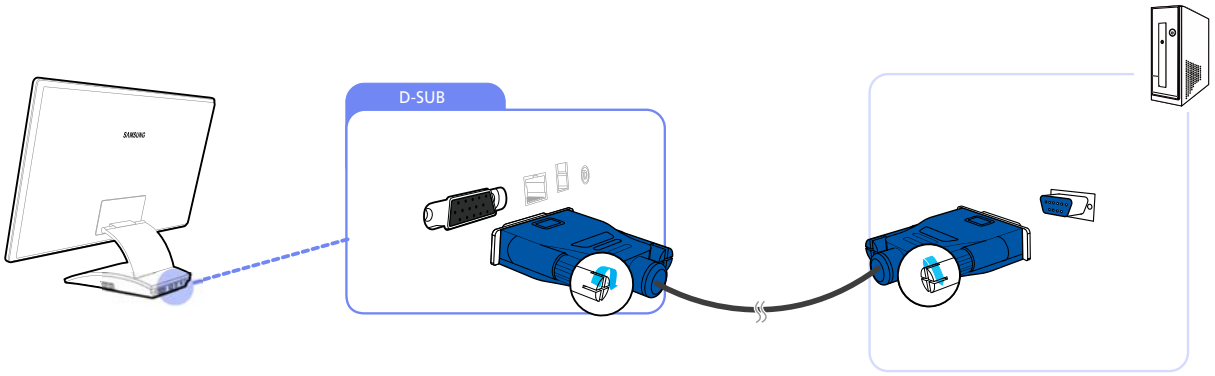
3.2 Connecting and Using a PC

3.2.1 Connecting to a PC

- Select a connection method suitable for your PC.

Connecting parts may differ in different products.

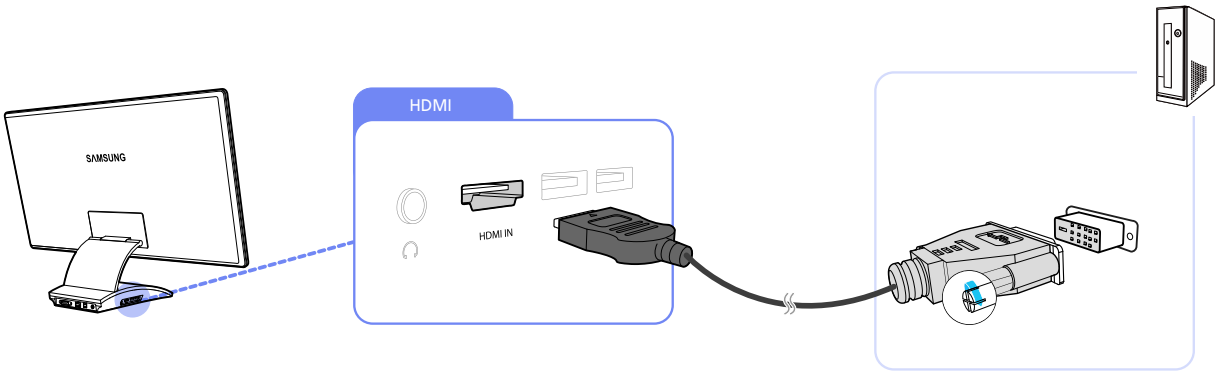
Connection using the D-SUB cable (Analogue type)



1. Connect the D-SUB cable to the D-SUB port on the back of the product and the RGB port on the PC.
2. Connect the DC power adapter to the product and a power socket, and turn on the power switch on the PC.

Audio is not available if the PC and product are connected via the D-SUB port.

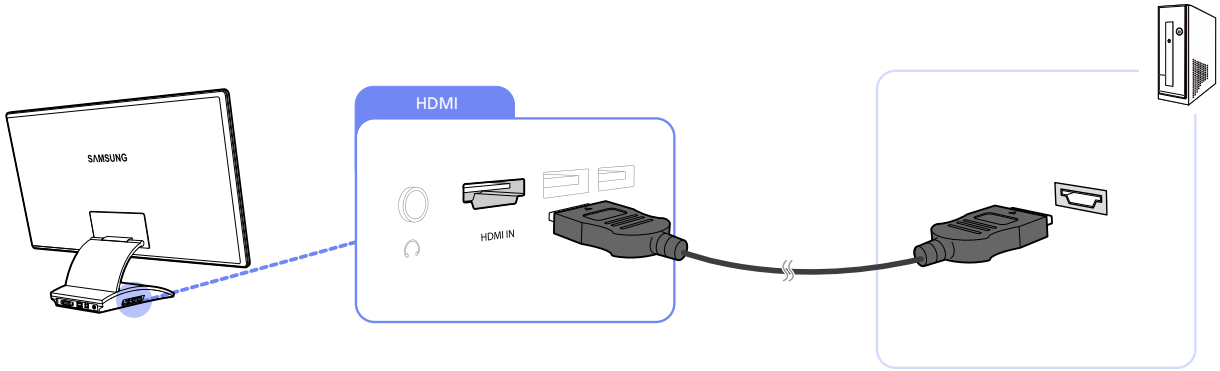
Connection Using an HDMI-DVI Cable



1. Connect an HDMI-DVI cable to the HDMI port on the side of the product and the DVI port on the PC.
2. Connect the DC power adapter to the product and a power socket, and turn on the power switch on the PC.

Audio is not available if the PC and product are connected via the HDMI-DVI port.

Connection Using an HDMI Cable (Digital Type)



1 Connect an HDMI cable to the HDMI port on the side of the product and the HDMI port on the PC.

2 Connect the DC power adapter to the product and a power socket, and turn on the power switch on the PC.

Be sure to connect an audio output device such as headphones or speakers to [🎧] on the product to hear audio.

3.2.2 Driver Installation

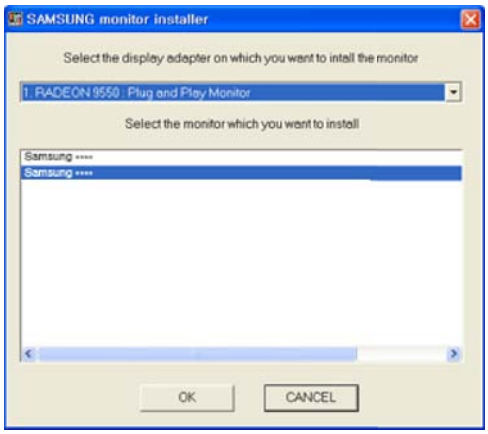
- You can set the optimum resolution and frequency for this product by installing the corresponding drivers for this product.
- An installation driver is contained on the CD supplied with the product.
- If the file provided is faulty, visit the Samsung homepage (http://www.samsung.com) and download the file.

1 Insert the user manual CD provided with the product into the CD-ROM drive.

2 Click "Windows Driver".

3 Follow the instructions given on the screen to proceed with installation.

4 Select your product model from the list of models.


SAMSUNG monitor installer
Select the display adapter on which you want to intall the monitor
1. RADEON 9550 : Plug and Play Monitor
Select the monitor which you want to install
Samsung ****
Samsung ****
OK
CANCEL

5 Go to Display Properties and check that the resolution and refresh rate are appropriate.

Refer to your Windows OS manual for further details.

PC System Requirements for Using the Product

Your Central Station monitor is designed for notebook PC users; consider the following PC system requirements.

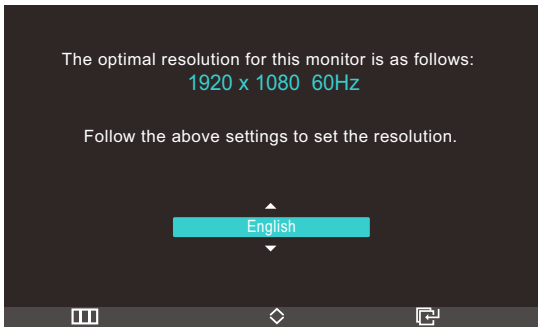
Items	Specifications
CPU Core	Core2Duo or higher
CPU Speed	2.2Ghz or higher
OS	WINDOWS 7 or XP (Windows Vista is not supported)
Graphics driver (WINDOWS 7, XP)	Intel, AMD(ATI), Nvidia
RAM	2GB

- The operating system on your PC can affect the PC's performance for video or game playback.
- It is recommended that you use Windows 7 for the Central Station monitor.

3.2.3 Setting Optimum Resolution

An information message about setting optimum resolution will appear if you power on the product for the first time after purchase.

Select a language and change the resolution to the optimum value.


The optimal resolution for this monitor is as follows:
1920 x 1080 60Hz
Follow the above settings to set the resolution.
English

1 Press [∧/∨] to move to the language you want and press the [⏎].

2 To hide the information message, press [▥].

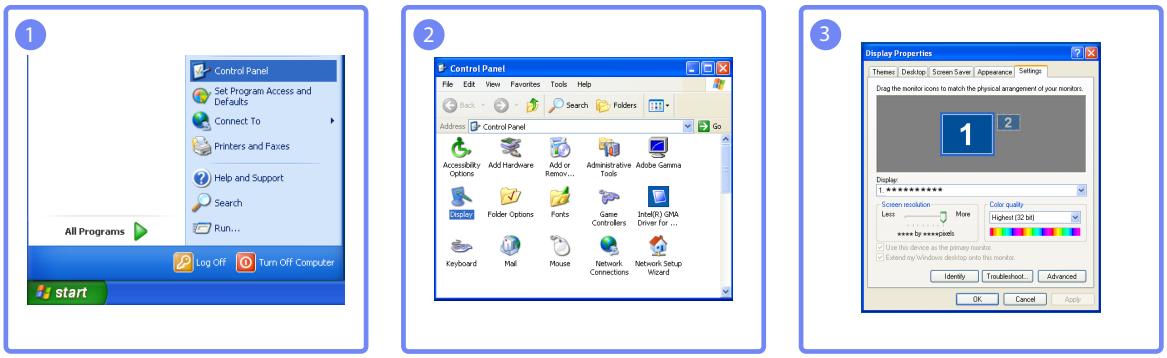
- If the optimum resolution is not selected, the message will appear up to three times for a specified time even when the product is turned off and on again.
- The optimum resolution (1920 x 1080) can also be selected in **Control Panel** on your PC.

3.2.4 Changing the Resolution Using a PC

- Adjust the resolution and refresh rate in Control Panel on your PC to obtain optimum picture quality.
- The picture quality of TFT-LCDs may degrade if the optimum resolution is not selected.

Changing the Resolution on Windows XP

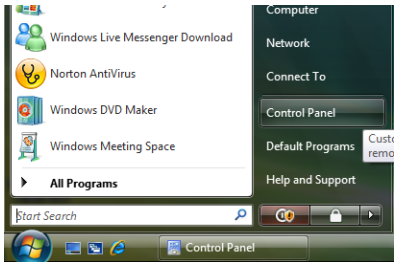
Go to **Control Panel** → **Display** → **Settings** and change the resolution.



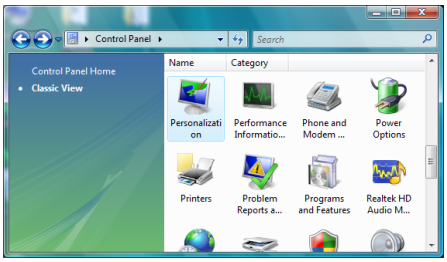
Changing the Resolution on Windows Vista

Go to **Control Panel** → **Personalization** → **Display Settings** and change the resolution.

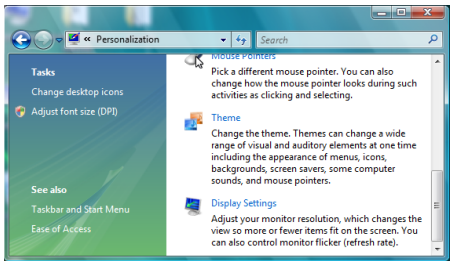
1



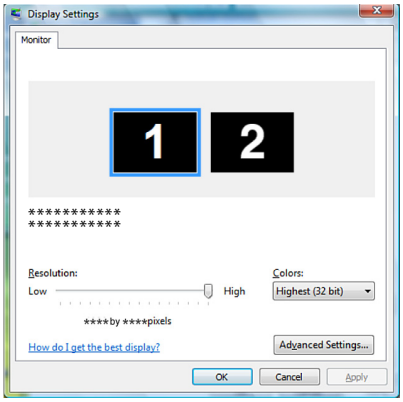
2



3


Personalization
Search
Tasks
Change desktop icons
Adjust font size (DPI)
See also
Taskbar and Start Menu
Ease of Access
Mouse Pointers
Pick a different mouse pointer. You can also change how the mouse pointer looks during such activities as clicking and selecting.
Theme
Change the theme. Themes can change a wide range of visual and auditory elements at one time including the appearance of menus, icons, backgrounds, screen savers, some computer sounds, and mouse pointers.
Display Settings
Adjust your monitor resolution, which changes the view so more or fewer items fit on the screen. You can also control monitor flicker (refresh rate).

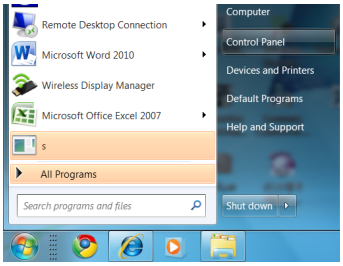
4



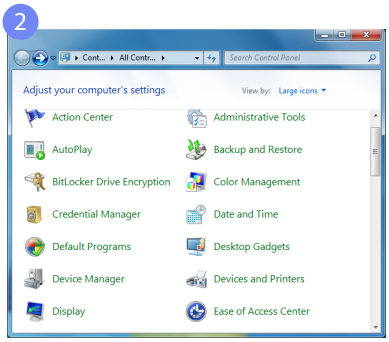
Changing the Resolution on Windows 7

Go to **Control Panel** ⟶ **Display** ⟶ **Screen Resolution** and change the resolution.

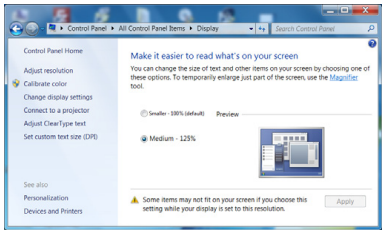
1



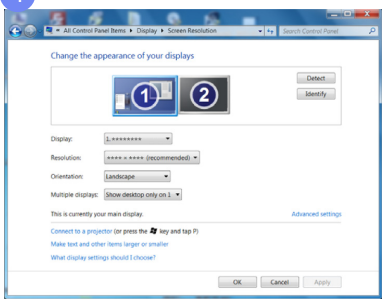
2



3



4

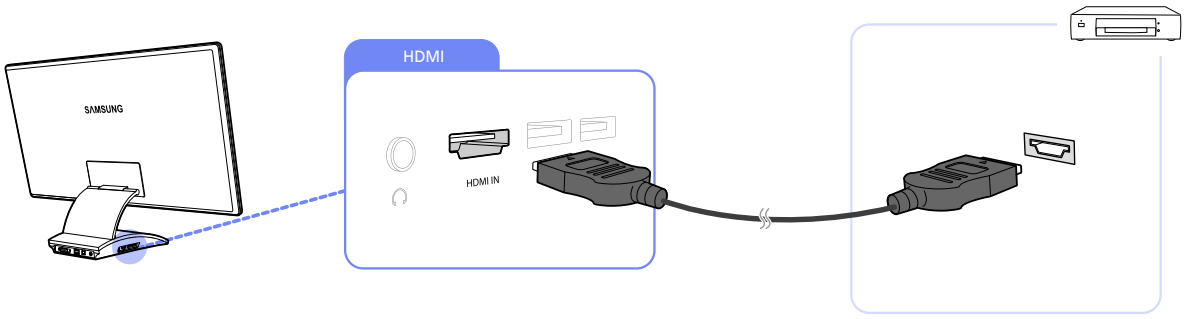


3.3 Connecting to a Video Device

- The product can be connected to a video device.

Connecting parts may differ in different products.

3.3.1 Connection Using an HDMI Cable

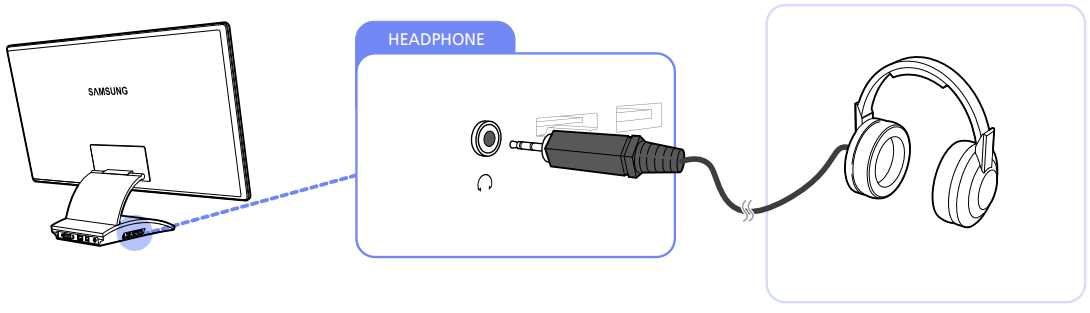


1 Connect an HDMI cable to the HDMI ports on the product and video device.

2 Press [⧉] to change the input source to **HDMI**.

Be sure to connect an audio output device such as headphones or speakers to [🎧] on the product to hear audio.

3.4 Connecting Headphones



- Connect an audio output device such as headphones or speakers to [🎧] on the product.

Headphones will function properly if the product is connected to a PC via USB orHDMI.

4 Screen Setup

Configure the screen settings such as brightness and color tone.

4.1 MAGIC

This feature provides the viewing angle, brightness, and tint to suit your preferences.

4.1.1 SAMSUNG MAGIC Angle

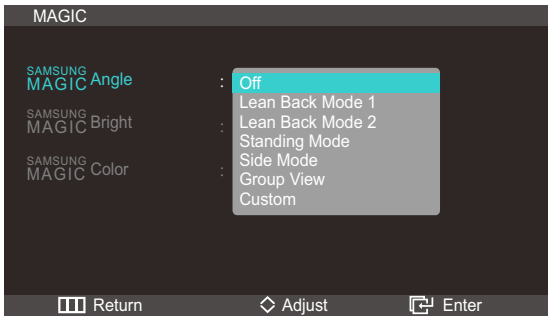
SAMSUNG MAGIC **Angle** allows you to configure the settings to obtain the optimum picture quality according to your viewing angle.

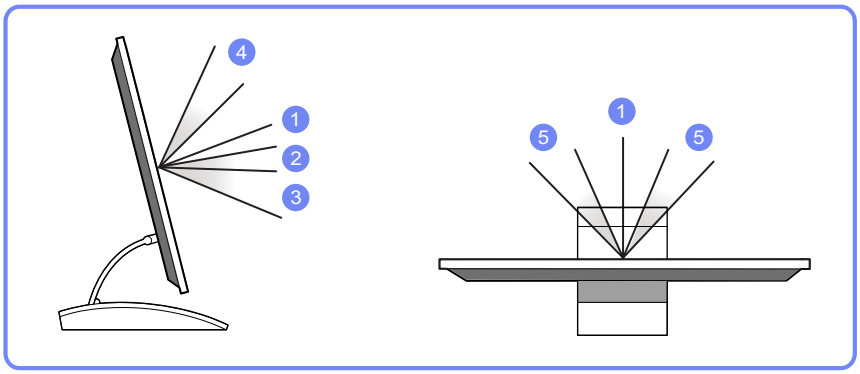
You can enjoy similar picture quality to when you view directly in front of the product by selecting a viewing mode appropriate for each viewing angle.

- This option is not available when SAMSUNG MAGIC **Bright** is in **Cinema** or **Dynamic Contrast** mode.
- This option is not available when SAMSUNG MAGIC **Color** is enabled.

Configuring SAMSUNG MAGIC Angle

1. Press [ ] on the product.
2. Press [∧/∨] to move to **Picture** and press [ ] on the product.
3. Press [∧/∨] to move to **MAGIC** and press [ ] on the product.
4. Press [∧/∨] to move to SAMSUNG MAGIC **Angle** and press [ ] on the product. The following screen will appear.





- **Off** ①: Select this option to view directly in front of the product.
- **Lean Back Mode 1** ②: Select this option to view from a place slightly lower than the product.

- **Lean Back Mode 2** ③: Select this option to view from a place lower than Lean Back Mode 1 ② mode.
- **Standing Mode** ④: Select this option to view from a place higher than the product.
- **Side Mode** ⑤: Select this option to view from either side of the product.
- **Group View**: Select this option for more than one viewer to view from places ①, ④ and ⑤.
- **Custom**: **Lean Back Mode 1** will be applied by default if **Custom** is selected.

5 Press [∧/∨] to move to the option you want and press the [⏎].

6 The selected option will be applied.

4.1.2 SAMSUNG MAGIC Bright

This menu provides an optimum picture quality suitable for the environment where the product will be used.

- This menu is not available when SAMSUNG MAGIC **Angle** is enabled.
- Sub-options under SAMSUNG MAGIC **Bright** may vary depending on the settings of "**PC/AV Mode**." (See "7.5 **PC/AV Mode**")

Configuring SAMSUNG MAGIC Bright

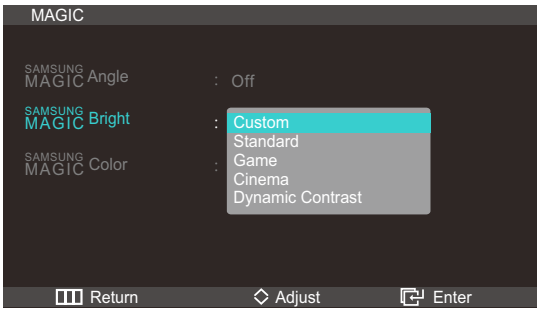
1 Press [▥] on the product.

2 Press [∧/∨] to move to **Picture** and press [⏎] on the product.

3 Press [∧/∨] to move to **MAGIC** and press [⏎] on the product.

4 Press [∧/∨] to move to SAMSUNG MAGIC **Bright** and press [⏎] on the product. The following screen will appear.

In **PC** mode

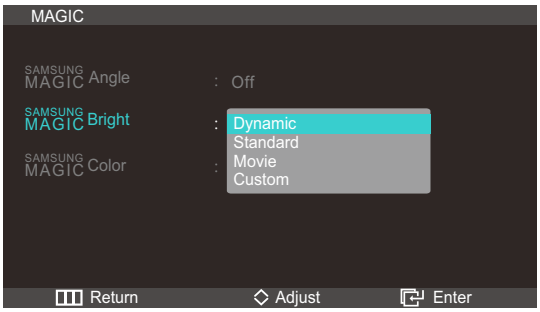


- Adjusting **Contrast** when SAMSUNG MAGIC **Bright** is set to **Cinema** will automatically switch the **Cinema** mode to **Custom** mode.
- Adjusting **Brightness** or **Contrast** when SAMSUNG MAGIC **Bright** is set to **Dynamic Contrast** will automatically switch the **Dynamic Contrast** mode to **Custom** mode.

- **Custom**: Customize the contrast and brightness as required.
- **Standard**: Obtain a picture quality suitable for editing documents or using Internet.

- **Game**: Obtain a picture quality suitable for playing games that involve many graphic effects and dynamic movements.
- **Cinema**: Obtain the brightness and sharpness of TVs suitable for enjoying video and DVD content.
- **Dynamic Contrast**: Obtain balanced brightness through automatic contrast adjustment.

In **AV** mode



- **Dynamic**: This mode is suitable when the ambient light is bright.
- **Standard**: This mode is generally suitable for any environment.
- **Movie**: This mode reduces eye fatigue.
- **Custom**: Customize the contrast and brightness as required.

5 Press [∧/∨] to move to the option you want and press the [⏎].

6 The selected option will be applied.

4.1.3 SAMSUNG MAGIC Color

SAMSUNG MAGIC **Color** is a new picture-quality improvement technology developed independently by Samsung, which delivers vivid natural colors without picture quality degradation.

- This menu is not available when SAMSUNG MAGIC **Angle** is enabled.
- Not available when SAMSUNG MAGIC **Bright** is in **Cinema** or **Dynamic Contrast** mode.

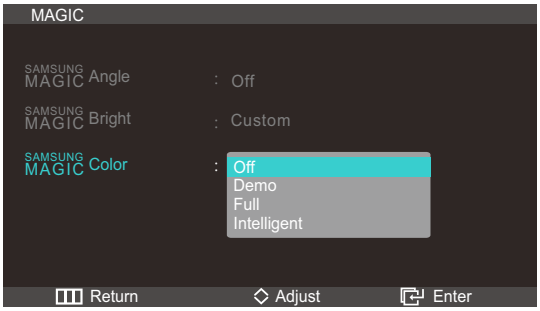
Configuring SAMSUNG MAGIC Color

1 Press [▥] on the product.

2 Press [∧/∨] to move to **Picture** and press [⏎] on the product.

3 Press [∧/∨] to move to **MAGIC** and press [⏎] on the product.

4 Press [∧/∨] to move to SAMSUNG MAGIC Color and press [⏎] on the product. The following screen will appear.



- **Off**: Disable SAMSUNG MAGIC Color.
- **Demo**: Compare normal screen mode with SAMSUNG MAGIC Color mode.
- **Full**: Obtain a vivid picture quality for all areas including the flesh colors in the picture.
- **Intelligent**: Improve the chroma for all areas except the flesh colors in the picture.

5 Press [∧/∨] to move to the option you want and press the [⏎].

6 The selected option will be applied.

4.2 Brightness

Adjust the general brightness of the picture. (Range: 0~100)

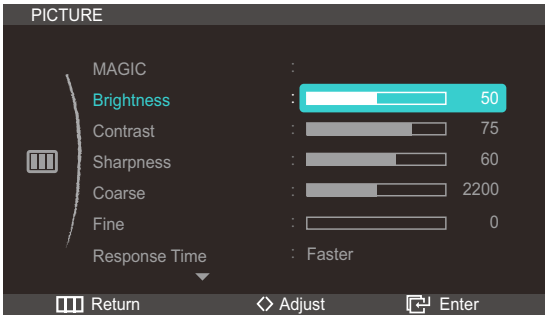
A higher value will make the picture appear brighter.

4.2.1 Configuring Brightness

1 Press [▥] on the product.

2 Press [∧/∨] to move to **Picture** and press [⏎] on the product.

3 Press [∧/∨] to move to **Brightness** and press [⏎] on the product. The following screen will appear.



4 Adjust the **Brightness** using the [</>] button.

4.3 Contrast

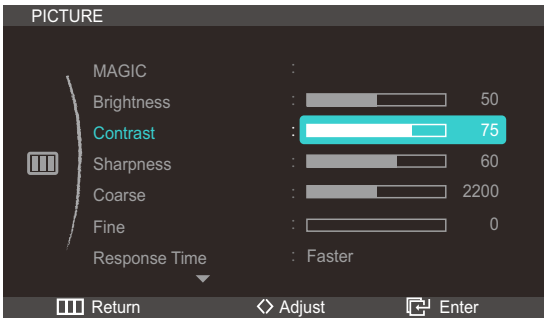
Adjust the contrast between the objects and background. (Range: 0~100)

A higher value will increase the contrast to make the object appear clearer.

This option is not available when SAMSUNG MAGIC Color is in Full or Intelligent mode.

4.3.1 Configuring Contrast

1. Press [ ] on the product.
2. Press [∧/∨] to move to Picture and press [ ] on the product.
3. Press [∧/∨] to move to Contrast and press [ ] on the product. The following screen will appear.



4. Adjust the Contrast using the [</>] button.

4.4 Sharpness

Make the outline of objects more clear or blurry. (Range: 0~100)

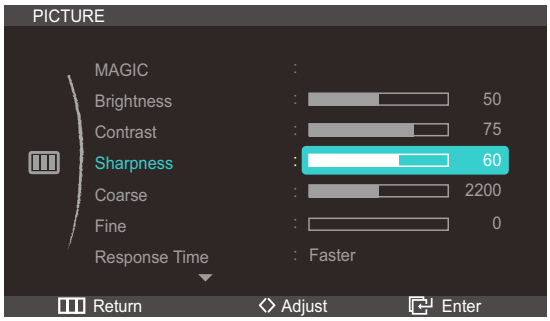
A higher value will make the outline of objects clearer.

- This option is not available when SAMSUNG MAGIC Bright is in Cinema or Dynamic Contrast mode.
- This option is not available when SAMSUNG MAGIC Color is in Full or Intelligent mode.

4.4.1 Configuring Sharpness

1. Press [ ] on the product.
2. Press [∧/∨] to move to Picture and press [ ] on the product.

3 Press [∧/∨] to move to **Sharpness** and press [⏎] on the product. The following screen will appear.



4 Adjust the **Sharpness** using the [</>] button.

4.5 Coarse

Adjust the screen frequency.

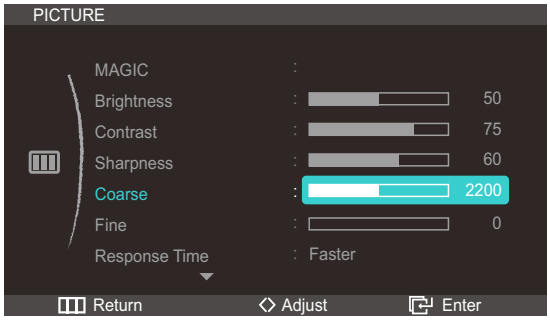
Only available in **Analog** mode.

4.5.1 Adjusting Coarse

1 Press [⊞] on the product.

2 Press [∧/∨] to move to **Picture** and press [⏎] on the product.

3 Press [∧/∨] to move to **Coarse** and press [⏎] on the product. The following screen will appear.



4 Adjust the **Coarse** using the [</>] button.

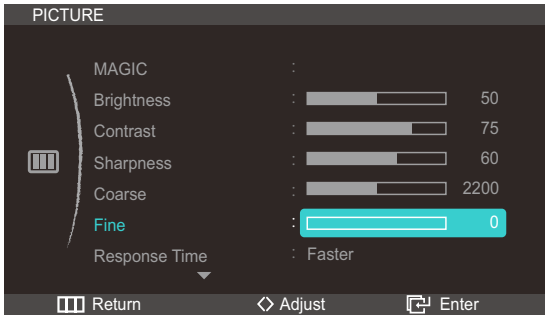
4.6 Fine

Fine-adjust the screen to obtain a vivid picture.

Only available in **Analog** mode.

4.6.1 Adjusting Fine

1. Press [▥] on the product.
2. Press [∧/∨] to move to **Picture** and press [⏎] on the product.
3. Press [∧/∨] to move to **Fine** and press [⏎] on the product. The following screen will appear.



4. Adjust the **Fine** using the [</>] button.

4.7 Response Time

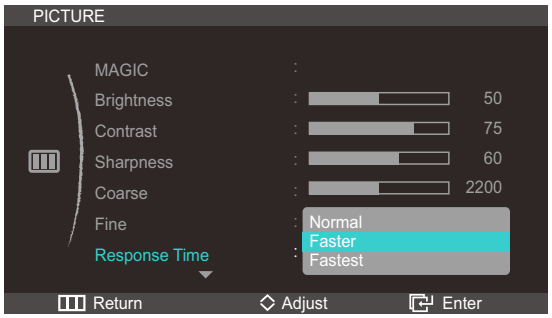
Accelerate the panel response rate to make video appear more vivid and natural.

- It is best to set **Response Time** to **Normal** or **Faster** when you are not viewing a movie.
- The functions available on the monitor may vary depending on the model. Refer to the actual product.

4.7.1 Configuring Response Time

1. Press [▥] on the product.
2. Press [∧/∨] to move to **Picture** and press [⏎] on the product.

3 Press [∧/∨] to move to **Response Time** and press [⏎] on the product. The following screen will appear.



4 Press [∧/∨] to move to the option you want and press the [⏎].

5 The selected option will be applied.

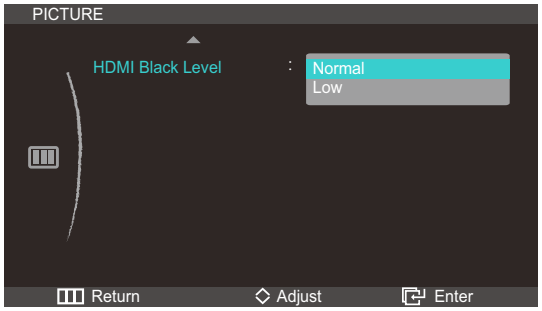
4.8 HDMI Black Level

If you use the product by connecting to a DVD player or set-top box with a **HDMI** cable, the contrast and color may degrade and the picture may be darker. If this is the case, correct the degraded picture quality using **HDMI Black Level**.

1 Press [⊞] on the product.

2 Press [∧/∨] to move to **Picture** and press [⏎] on the product.

3 Press [∧/∨] to move to **HDMI Black Level** and press [⏎] on the product. The following screen will appear.



- **Normal**: Set the brightness (darkness) of the darkest parts of the screen to Normal.
- **Low**: Set the brightness (darkness) of the darkest parts of the screen to be darker than Normal.

4 Press [∧/∨] to move to the option you want and press the [⏎].

5 The selected option will be applied.

- Only available when the product is connected to a source device via an HDMI cable.
- **HDMI Black Level** may not be compatible with some source devices.

5 Configuring Tint

Adjust the tint of the screen. This option is not available when SAMSUNG MAGIC **Bright** is set to **Cinema** or **Dynamic Contrast** mode.

5.1 Red

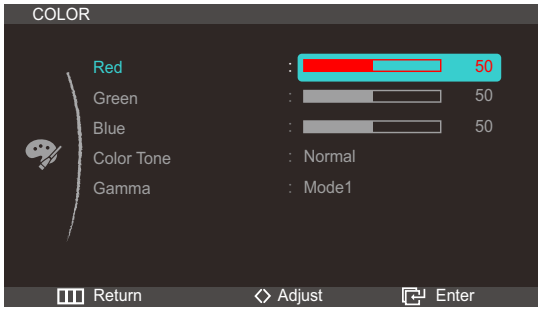
Adjust the value of the color red in the picture. (Range: 0~100)

A higher value will increase the intensity of the color.

- This option is not available when SAMSUNG MAGIC **Color** is in **Full** or **Intelligent** mode.

5.1.1 Configuring Red

1. Press [ ] on the product.
2. Press [∧/∨] to move to **COLOR** and press [ ] on the product.
3. Press [∧/∨] to move to **Red** and press [ ] on the product. The following screen will appear.



4. Adjust the **Red** using the [</>] button.

5.2 Green

Adjust the value of the color green in the picture. (Range: 0~100)

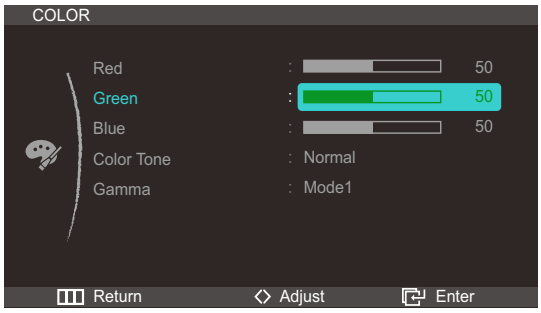
A higher value will increase the intensity of the color.

- This option is not available when SAMSUNG MAGIC **Color** is in **Full** or **Intelligent** mode.

5.2.1 Configuring Green

1. Press [ ] on the product.
2. Press [∧/∨] to move to **COLOR** and press [ ] on the product.

3 Press [∧/∨] to move to **Green** and press [⏎] on the product. The following screen will appear.



4 Adjust the **Green** using the [</>] button.

5.3 Blue

Adjust the value of the color blue in the picture. (Range: 0~100)

A higher value will increase the intensity of the color.

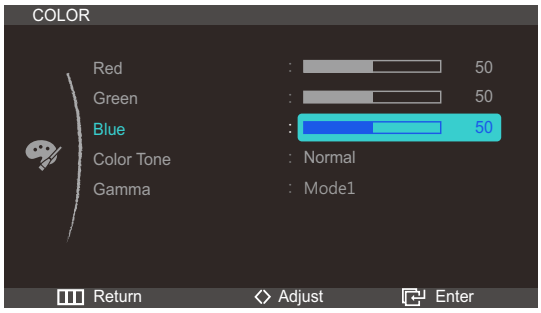
- This option is not available when SAMSUNG MAGIC **Color** is in **Full** or **Intelligent** mode.

5.3.1 Configuring Blue

1 Press [⊞] on the product.

2 Press [∧/∨] to move to **COLOR** and press [⏎] on the product.

3 Press [∧/∨] to move to **Blue** and press [⏎] on the product. The following screen will appear.



4 Adjust the **Blue** using the [</>] button.

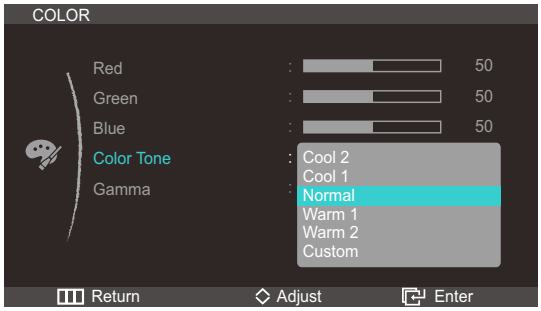
5.4 Color Tone

Adjust the general color tone of the picture.

- This option is not available when SAMSUNG MAGIC **Angle** is enabled.
- This option is not available when SAMSUNG MAGIC **Color** is in **Full** or **Intelligent** mode.

5.4.1 Configuring the Color Tone Settings

1. Press [ ] on the product.
2. Press [∧/∨] to move to **COLOR** and press [ ] on the product.
3. Press [∧/∨] to move to **Color Tone** and press [ ] on the product. The following screen will appear.



- **Cool2**: Set the color temperature to be cooler than **Cool1**.
- **Cool1**: Set the color temperature to be cooler than **Normal** mode.
- **Normal**: Display the standard color tone.
- **Warm1**: Set the color temperature to be warmer than **Normal** mode.
- **Warm2**: Set the color temperature to be warmer than **Warm1**.
- **Custom**: Customize the color tone.

4. Press [∧/∨] to move to the option you want and press the [ ].
5. The selected option will be applied.

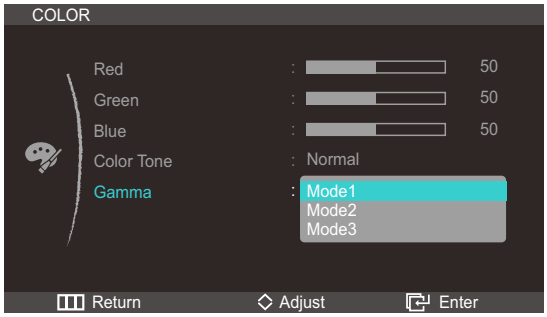
5.5 Gamma

Adjust the mid-range brightness (Gamma) of the picture.

This option is not available when SAMSUNG MAGIC **Angle** is enabled.

5.5.1 Configuring Gamma

1. Press [ ] on the product.
2. Press [∧/∨] to move to **COLOR** and press [ ] on the product.
3. Press [∧/∨] to move to **Gamma** and press [ ] on the product. The following screen will appear.



4. Press [∧/∨] to move to the option you want and press the [ ].
5. The selected option will be applied.

6 Resizing or Relocating the Screen

6.1 Auto Adjustment

This function can be used to automatically adjust the **Coarse**, **Fine** and position settings.

This function can be used to automatically detect and remove noise on the screen and correct the screen position.

This function will automatically run if the screen resolution is changed.

Only available in **Analog** mode.

6.1.1 Configuring the Auto Adjustment Settings

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SIZE&POSITION** and press [ ] on the product.
3. Press [∧/∨] to move to **Auto Adjustment** and press [ ] on the product. The following screen will appear.

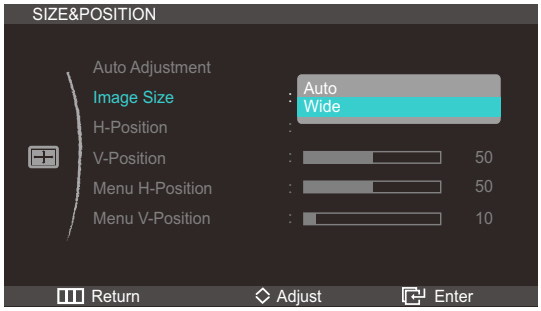
6.2 Size

Change the picture size.

6.2.1 Changing the Picture Size

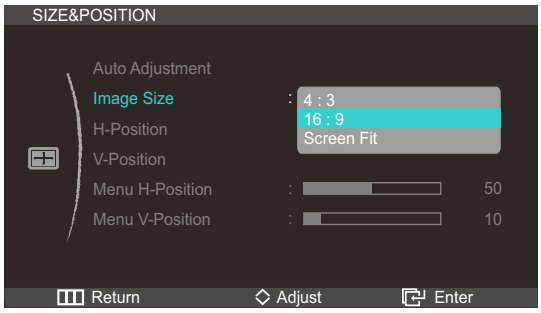
1. Press [ ] on the product.
2. Press [∧/∨] to move to **SIZE&POSITION** and press [ ] on the product.
3. Press [∧/∨] to move to **Image Size** and press [ ] on the product. The following screen will appear.

In **PC** mode



- **Auto**: Display the picture according to the aspect ratio of the input source.
- **Wide**: Display the picture in full screen regardless of the aspect ratio of the input source.

In **AV** mode



- **4:3**: Display the picture with an aspect ratio of 4:3. Suitable for videos and standard broadcasts.
- **16:9**: Display the picture with an aspect ratio of 16.9. Suitable for DVD content or widescreen broadcasts.
- **Screen Fit**: Display the picture with the original aspect ratio without cutting off.

- **PC/AV Mode** is only available in **HDMI** mode.
- **H-Position** or **V-Position** can be adjusted if **Size** is set to **Screen Fit**.
- Refer to "7.5 **PC/AV Mode**" for details about **PC/AV Mode**.

4 Press [∧/∨] to move to the option you want and press the [⏎].

5 The selected option will be applied.

6.3 Horizontal Position

Move the screen to the left or right.

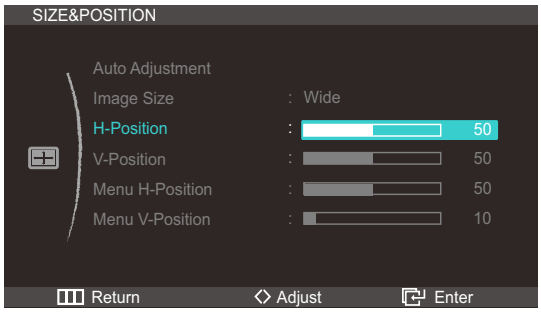
- Only available in **Analog** mode.
- **H-Position** or **V-Position** can be adjusted if **Size** is set to **Screen Fit**.

6.3.1 Configuring H-Position

1 Press [▥] on the product.

2 Press [∧/∨] to move to **SIZE&POSITION** and press [⏎] on the product.

3 Press [∧/∨] to move to **H-Position** and press [⏎] on the product. The following screen will appear.



4 Adjust the **H-Position** using the [</>] button.

6.4 Vertical Position

Move the screen up or down.

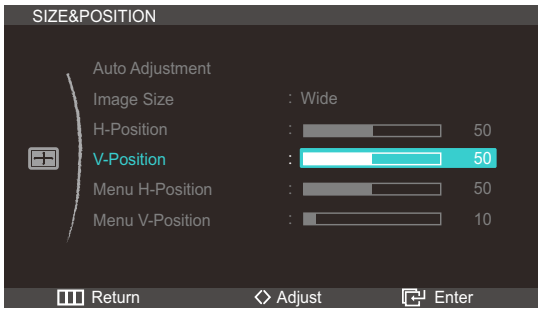
- Only available in **Analog** mode.
- **H-Position** or **V-Position** can be adjusted if **Size** is set to **Screen Fit**.

6.4.1 Configuring V-Position

1 Press [▥] on the product.

2 Press [∧/∨] to move to **SIZE&POSITION** and press [⏎] on the product.

3 Press [∧/∨] to move to **V-Position** and press [⏎] on the product. The following screen will appear.



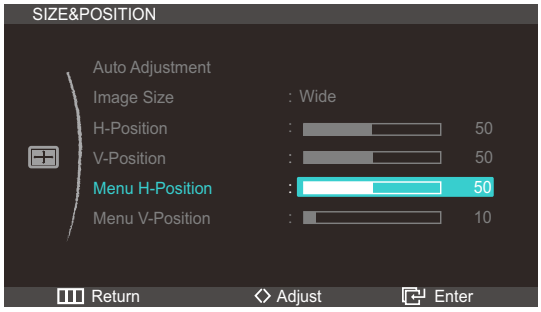
4 Adjust the **V-Position** using the [</>] button.

6.5 Menu H-Position

Move the menu position to the left or right.

6.5.1 Configuring Menu H-Position

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SIZE&POSITION** and press [⏎] on the product.
3. Press [∧/∨] to move to **Menu H-Position** and press [⏎] on the product. The following screen will appear.



4. Adjust the **Menu H-Position** using the [</>] button.

6.6 Menu V-Position

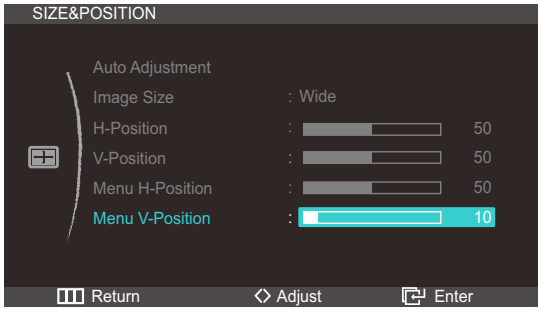
Move the menu position up or down.

6.6.1 Configuring Menu V-Position

1 Press [ ] on the product.

2 Press [∧/∨] to move to **SIZE&POSITION** and press [⏎] on the product.

3 Press [∧/∨] to move to **Menu V-Position** and press [⏎] on the product. The following screen will appear.



4 Adjust the **Menu V-Position** using the [</>] button.

7.1 HUB

Configure the settings to use the HUB function on the product.

- Refer to "2.1 About "Central Station"" for details about how to use the **HUB** function.
- To open the **HUB** settings screen, press **HUB** on the stand.

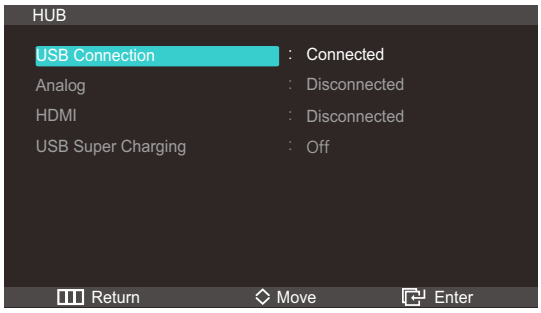
7.1.1 USB Connection

You can view the USB cable connection status between the product and a PC.

- The connection status will be shown even when the input source is not **USB** mode.
- Selecting the **USB Connection** option when a USB cable is connected will change the input source to **USB** mode.

Configuring USB Connection

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.
3. Press [∧/∨] to move to **HUB** and press [ ] on the product. A message will appear indicating that a USB cable is connected or disconnected.
4. If a USB cable is connected, press [∧/∨] to move to **USB Connection** and press [ ]. The input source will change to **USB** mode.



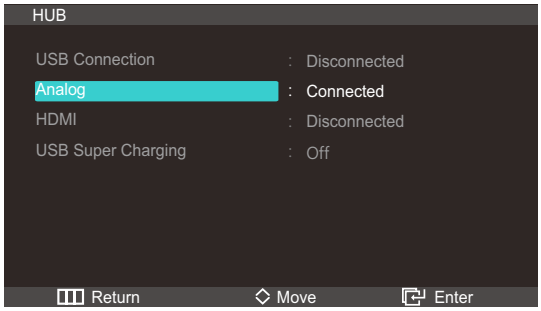
7.1.2 Analog

You can view the **Analog** cable connection status between the product and a PC.

- The connection status will be shown even when the input source is not **Analog** mode.
- Selecting the **Analog** option when an analog cable is connected will change the input source to **Analog** mode.

Configuring Analog

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.
3. Press [∧/∨] to move to **HUB** and press [ ] on the product. A message will appear indicating that an analog cable is connected or disconnected.
4. If an analog cable is connected, press [∧/∨] to move to **Analog** and press [ ]. The input source will change to **Analog** mode.



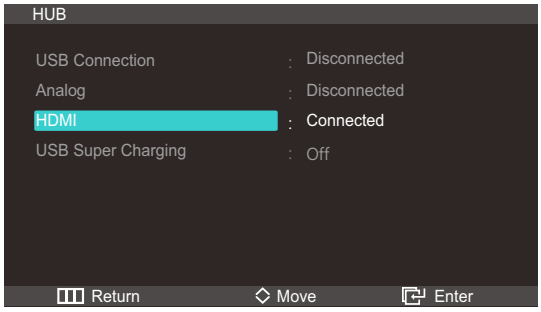
7.1.3 HDMI

You can view the HDMI connection status between the product and an AV device.

- The connection status will be shown even when the input source is not **HDMI** mode.
- Selecting the **HDMI** option when an HDMI cable is connected will change the input source to **HDMI** mode.

Configuring HDMI

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.
3. Press [∧/∨] to move to **HUB** and press [ ] on the product. A message will appear indicating that an HDMI cable is connected or disconnected.
4. If an HDMI cable is connected, press [∧/∨] to move to **HDMI** and press [ ]. The input source will change to **HDMI** mode.



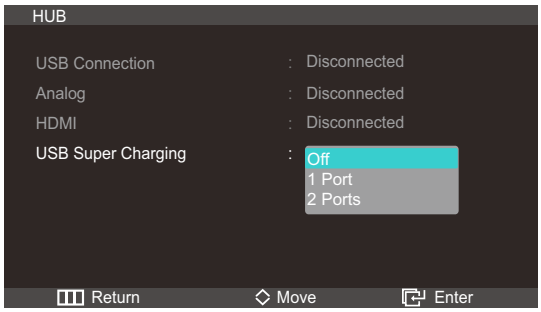
7.1.4 USB Super Charging

A source device's battery can be charged quickly via USB 3.0 port on the product.

- Data transmission is not available if **USB Super Charging** is on.
- To enable standard charging or data transmission, set **USB Super Charging** to off.
- The input source does not need to be changed.

Configuring USB Super Charging

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SETUP&RESET**, and press [ ] on the product.
3. Press [∧/∨] to move to **HUB**, and press [ ] on the product.
4. Press [∧/∨] to move to **USB Super Charging**, and press [ ] on the product. The following screen will appear.



- **Off**: Disable **USB Super Charging**.
- **1 Port**: Enable a single USB 3.0 port (marked with a charging icon) for quick battery charging.

  Quick battery charging is available only through one USB 3.0 port (it is found on the left side and is the port closest to you when facing the front of the monitor).

- **2 Ports**: Enable two USB 3.0 ports for quick battery charging.

5. Press [∧/∨] to move to the option you want, and press [ ] .
6. The selected option will be applied.

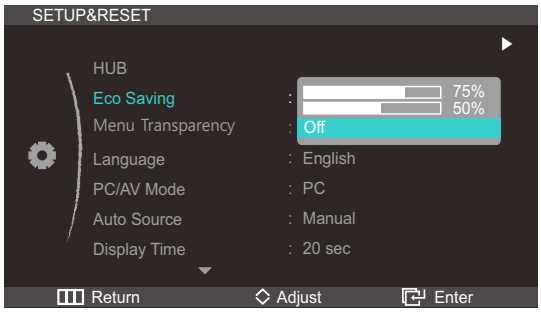
7.2 Eco Saving

Adjust the power consumption of the product to save energy.

7.2.1 Configuring Eco Saving

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.

3 Press [∧/∨] to move to **Eco Saving** and press [⏎] on the product. The following screen will appear.



- **75%**: Reduce the power consumption of the product to 75%.
- **50%**: Reduce the power consumption of the product to 50%.
- **Off**: Deactivate power-saving mode.

4 Press [∧/∨] to move to the option you want and press the [⏎].

5 The selected option will be applied.

7.3 Menu Transparency

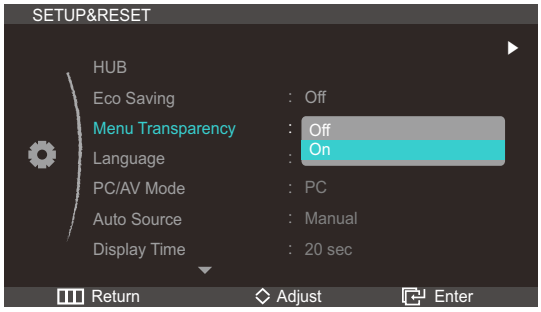
Set the transparency for the menu windows:

7.3.1 Changing Menu Transparency

1 Press [ ] on the product.

2 Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.

3 Press [∧/∨] to move to **Menu Transparency** and press [ ] on the product. The following screen will appear.



4 Press [∧/∨] to move to the option you want and press the [ ].

5 The selected option will be applied.

7.4 Language

Set the menu language.

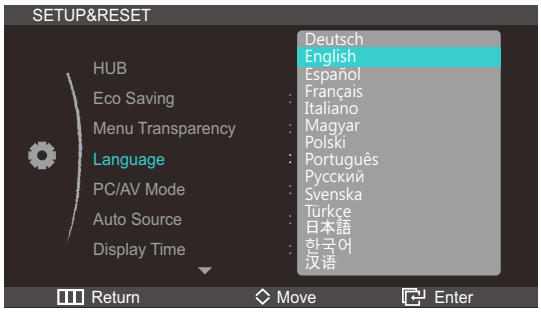
- A change to the language setting will only be applied to the onscreen menu display.
- It will not be applied to other functions on your PC.

7.4.1 Changing the Language

1 Press [ ] on the product.

2 Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.

3 Press [∧/∨] to move to **Language** and press [⏎] on the product. The following screen will appear.



4 Press [∧/∨] to move to the option you want and press the [⏎].

5 The selected option will be applied.

7.5 PC/AV Mode

Set **PC/AV Mode** to **AV**. The picture size will be enlarged. This option is useful when you view a movie.

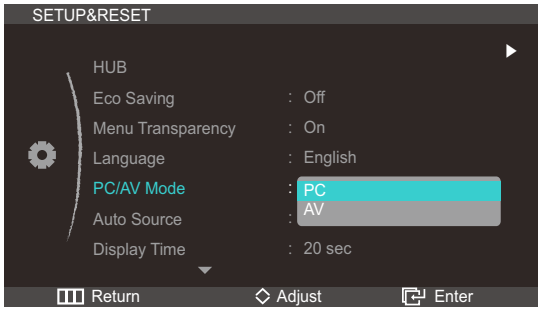
PC/AV Mode is only available in **HDMI** mode.

7.5.1 Configuring PC/AV Mode

1 Press [▥] on the product.

2 Press [∧/∨] to move to **SETUP&RESET** and press [⏎] on the product.

3 Press [∧/∨] to move to **PC/AV Mode** and press [⏎] on the product. The following screen will appear.



4 Press [∧/∨] to move to the option you want and press the [⏎].

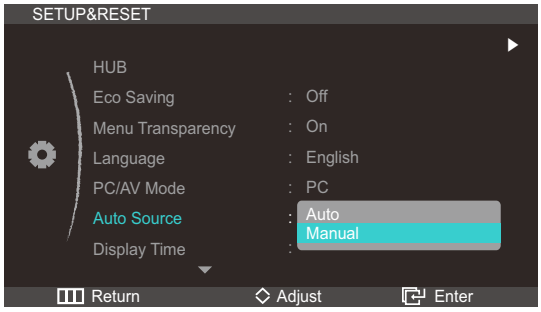
5 The selected option will be applied.

7.6 Auto Source

Activate **Auto Source**.

7.6.1 Configuring Auto Source

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.
3. Press [∧/∨] to move to **Auto Source** and press [ ] on the product. The following screen will appear.



- **Auto**: The input source is automatically recognized.
- **Manual**: Manually select an input source.

4. Press [∧/∨] to move to the option you want and press the [ ].
5. The selected option will be applied.

7.7 Display Time

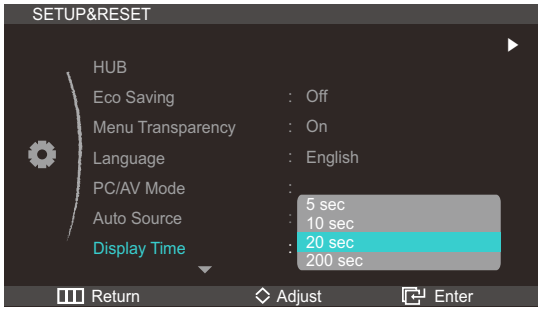
Set the on screen display (OSD) menu to automatically disappear if the menu is not used for a specified period of time.

Display Time can be used to specify the time after which you want the OSD menu to disappear.

7.7.1 Configuring Display Time

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.

3 Press [∧/∨] to move to **Display Time** and press [⏎] on the product. The following screen will appear.



4 Press [∧/∨] to move to the option you want and press the [⏎].

5 The selected option will be applied.

7.8 Key Repeat Time

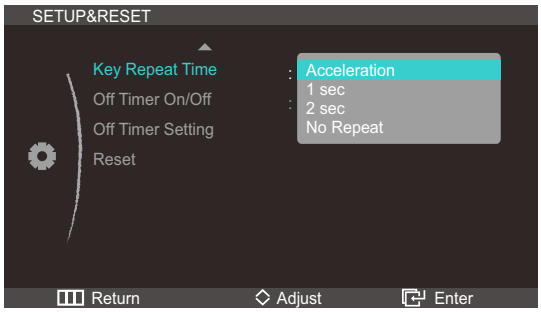
Control the response rate of a button when the button is pressed.

7.8.1 Configuring Key Repeat Time

1 Press [⊞] on the product.

2 Press [∧/∨] to move to **SETUP&RESET** and press [⏎] on the product.

3 Press [∧/∨] to move to **Key Repeat Time** and press [⏎] on the product. The following screen will appear.



- **Acceleration**, **1 sec**, or **2 sec** can be selected. If **No Repeat** is selected, a command responds only once when a button is pressed.

4 Press [∧/∨] to move to the option you want and press the [⏎].

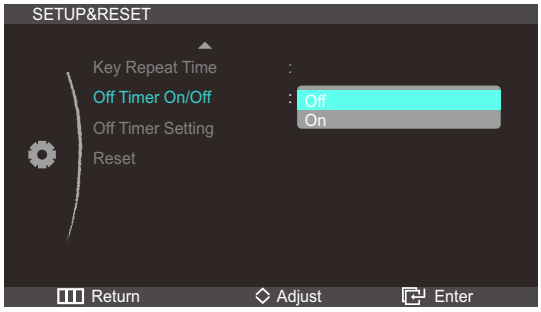
5 The selected option will be applied.

7.9 Off Timer On/Off

Enable or disable the off timer that automatically powers off the product.

7.9.1 Configuring Off Timer On/Off

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.
3. Press [∧/∨] to move to **Off Timer On/Off** and press [ ] on the product. The following screen will appear.



- **Off**: Deactivate the off timer so that the product does not power off automatically.
- **On**: Activate the off timer so that the product powers off automatically.

4. Press [∧/∨] to move to the option you want and press the [ ].
5. The selected option will be applied.

7.10 Off Timer Setting

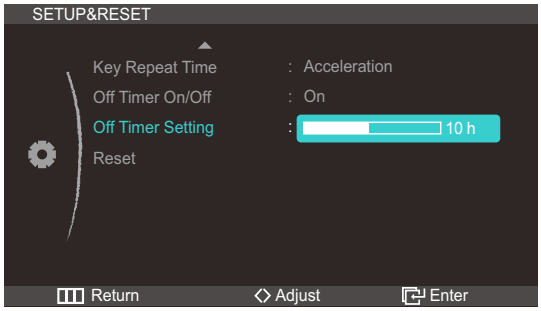
The off timer can be set within a range of 1 to 23 hours. The product will automatically power off after the specified number of hours.

This option is only available when **Off Timer On/Off** is set to **On**.

7.10.1 Configuring Off Timer Setting

1. Press [ ] on the product.
2. Press [∧/∨] to move to **SETUP&RESET** and press [ ] on the product.

3 Press [∧/∨] to move to **Off Timer Setting** and press [⏎] on the product. The following screen will appear.



4 Press [</>] to configure **Off Timer Setting**.

7.11 Reset

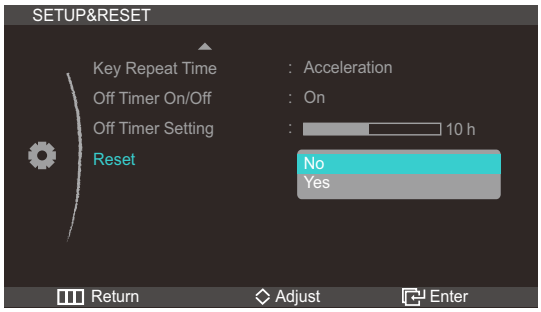
Return all the settings for the product to the default factory settings.

7.11.1 Initializing Settings (Reset)

1 Press [▥] on the product.

2 Press [∧/∨] to move to **SETUP&RESET** and press [⏎] on the product.

3 Press [∧/∨] to move to **Reset** and press [⏎] on the product. The following screen will appear.



4 Press [∧/∨] to move to the option you want and press the [⏎].

5 The selected option will be applied.

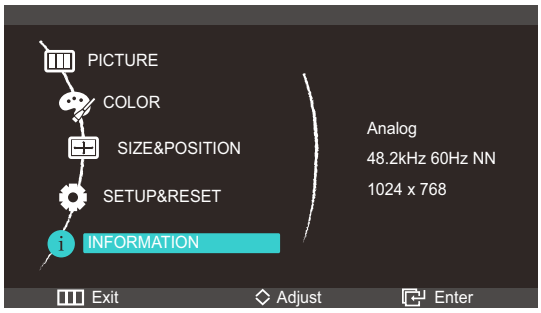
8.1 INFORMATION

View the current input source, frequency and resolution.

8.1.1 Displaying INFORMATION

1 Press [ ] on the product.

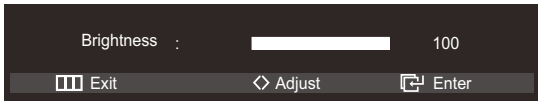
2 Press [∧/∨] to move to **INFORMATION**. The current input source, frequency and resolution will appear.



8.2 Configuring Brightness in the Startup Screen

Adjust **Brightness** using the [∧/∨] button in the startup screen where there is no on screen display menu available.

1 Press [∧/∨] in the startup screen. The following screen will appear.



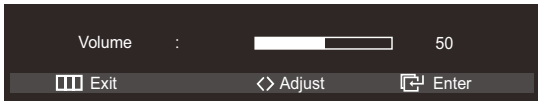
2 Adjust the **Brightness** using the [</>] button.

8.3 Configuring Volume in the Startup Screen

Adjust **Volume** using the [</>] button in the startup screen where there is no on screen display menu available.

Only available in **HDMI** mode.

1 Press [</>] in the startup screen. The following screen will appear.



2 Adjust the **Volume** using the [</>] button.

8.4 Configuring HUB in the Initial Screen

The HUB settings screen can be opened by pressing the [Hub] button on the stand when the initial screen (that displays no OSD menu) is displayed.

1 Press the [Hub] button when the initial screen is displayed.

You can configure the settings for **USB Connection**, **Analog**, **HDMI** or **USB Super Charging**.

2 Configure the settings as required using the [^/v] buttons.

Refer to "7.1 **HUB**" for further details on how to use the HUB function.

9.1 Requirements Before Contacting Samsung Customer Service Center

9.1.1 Testing the Product

Before calling Samsung Customer Service Center, test your product as follows. If the problem persists, contact Samsung Customer Service Center.

Check if your product is operating normally by using the product test function.

If the screen is turned off and the power indicator blinks even though the product is properly connected to a PC, perform a self-diagnosis test.

1. Power off both the PC and product.
2. Disconnect the cable from the product.
3. Power on the product.
4. If the Check Signal Cable message appears, the product is working normally.

   If the screen remains blank, check the PC system, video controller and cable.

9.1.2 Checking the Resolution and Frequency

For a mode that exceeds the supported resolution (refer to "10.3Standard Signal Mode Table"), the message Not Optimum Mode. will appear for a short time.

9.1.3 Check the followings.

Installation issue (PC mode)	
The screen keeps switching on and off.	Check the cable connection between the product and PC, and ensure the connection is secure. (Refer to "3.2Connecting and Using a PC")

Screen issue	
The power LED is off. The screen will not switch on.	Check that the power cable is connected correctly (Refer to "3.2Connecting and Using a PC")
The message Check Signal Cable appears.	Check that the cable is properly connected to the product. (Refer to "3.2Connecting and Using a PC")
	Check that the device connected to the product is powered on.

Screen issue	
"Not Optimum Mode" is displayed.	This message appears if the signal from the graphics card exceeds the maximum resolution or frequency for the product.
	Change the maximum resolution and frequency to suit the product performance, referring to Standard Signal Mode Table (80page).
The images on the screen look distorted.	Check the cable connection to the product (Refer to "3.2Connecting and Using a PC")
The screen is not clear. The screen is blurry.	Adjust Coarse(49page) and Fine(50page).
	Remove any accessories (video extension cable, etc) and try again.
	Set the resolution and frequency to the recommended level. (Refer to "10.1General")
The screen appears unstable and shaky.	Check that the resolution and frequency for the PC are within the range of resolution and frequency compatible with the product, and if required, change the settings, referring to Standard Signal Mode Table (80page) in this manual and the INFORMATION menu on the product.
There are shadows or ghost images left on the screen.	
The screen is too bright. The screen is too dark.	Adjust Brightness(47page) and Contrast(48page).
Screen color is inconsistent.	Change the COLOR settings. (Refer to "Configuring Tint" ON PAGE 52)
The colors on the screen have a shadow and are distorted.	Change the COLOR settings. (Refer to "Configuring Tint" ON PAGE 52)
White does not really look white.	Change the COLOR settings. (Refer to "Configuring Tint" ON PAGE 52)
There is no image on the screen and the power LED blinks every 0.5 to 1 second.	The product is in power-saving mode.
	Press any key on the keyboard or move the mouse to return to the previous screen.

Sound issue	
There is no sound.	Check the connection of the audio cable or adjust the volume.
	Check the volume.

Sound issue	
The volume is too low.	Adjust the volume.
	If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software program.

Source device issue	
A beeping sound is heard when my PC is booting.	If a beeping sound is heard when your PC is booting, have your PC serviced.

9.2 Q & A

Question	Answer
How can I change the frequency?	Set the frequency on your graphics card. • Windows XP: Select Control Panel → Appearance and Themes → Display → Settings → Advanced → Monitor, and adjust Refresh rate under Monitor settings. • Windows ME/2000: Select Control Panel → Display → Settings → Advanced → Monitor, and adjust Refresh rate under Monitor settings. • Windows Vista: Select Control Panel → Appearance and Personalization → Personalization → Display Settings → Advanced Settings → Monitor, and adjust Refresh rate under Monitor settings. • Windows 7: Select Control Panel → Appearance and Personalization → Display → Screen Resolution → Advanced settings → Monitor, and adjust Refresh rate under Monitor settings.

Question	Answer
How can I change the resolution?	• Windows XP: Go to Control Panel → Appearance and Themes → Display → Settings and adjust the resolution. • Windows ME/2000: Go to Control Panel → Display → Settings and adjust the resolution. • Windows Vista: Go to Control Panel → Appearance and Personalization → Personalize → Display Settings and adjust the resolution. • Windows 7: Go to Control Panel → Appearance and Personalization → Display → Adjust Resolution and adjust the resolution.
How do I set power-saving mode?	• Windows XP: Set power-saving mode in Control Panel → Appearance and Themes → Display → Screen Saver Settings or BIOS SETUP on the PC. • Windows ME/2000: Set power-saving mode in Control Panel → Display → Screen Saver Settings or BIOS SETUP on the PC. • Windows Vista: Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC. • Windows 7: Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC.

Refer to the user manual for your PC or graphics card for further instructions on adjustment.

10.1 General

Model Name		C23A550U	C27A550U
Panel	Size	23.0 inch / 58cm	27.0 inch / 68cm
	Display area	286.74 mm (V) x 509.76 mm (H) 11.3 inches (V) x 20.1 inches (H)	336.15 mm (V) x 597.6 mm (H) 13.2 inches (V) x 23.5 inches (H)
Synchronization	Horizontal Frequency	30~81 kHz	
	Vertical Frequency	49~75 Hz	
Display Color		16.7M (6 bit with Hi-FRC)	
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz	
	Maximum resolution	1920 x 1080 @ 60 Hz	
Maximum Pixel Clock		164 MHz	
Power Supply		This product uses 100 to 240V. Refer to the label at the back of the product as the standard voltage can vary in different countries.	
Signal connectors		USB 3.0, HDMI, D-sub	
Dimensions (W x H x D) / Weight		550.4 x 433.9 x 232.8 mm / 4.4 kg 21.7 x 17.1 x 9.2 inches / / 9.7 lbs	638.6 x 485.4 x 232.8 mm / 5.2 kg 25.1 x 19.1 x 9.2 inches / / 11.5 lbs
Environmental considerations	Operating	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity : 10 % ~ 80 %, non-condensing	
	Storage	Operating Temperature : -4°F ~ 140°F (-20°C ~ 60°C) Humidity : 5% ~ 95%, non-condensing	
Plug-and-Play		This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.	
Panel Dots (Pixels)		Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may appear brighter or darker on the LCD panel. This does not affect product performance. LCD panel type 23 (58 cm screen): there are 6.220.800 sub-pixels. LCD panel type 27 (68 cm screen): there are 6.220.800 sub-pixels.	

The above specifications are subject to change without notice to improve quality.

Class B device (broadcast communications device for home use)

This Class B device designed for home use is registered for EMC requirements and can be used in all regions. (Class B devices emit less electromagnetic radiation than Class A devices)

10.2 PowerSaver

The power-saving function of this product reduces power consumption by switching off the screen and changing the color of the power LED if the product is not used for a specified period of time. The power is not turned off in power-saving mode. To switch the screen back on, press any key on the keyboard or move the mouse. Power-savign mode only functions when the product is connected to a PC with a power-saving function.

C23A550U

PowerSaver	Normal Operation	Power saving mode	Power off (Power button)
Power Indicator	On	Blinking	Amber
Power Consumption	33.6 W	1W or lower	0.3 W

C27A550U

PowerSaver	Normal Operation	Power saving mode	Power off (Power button)
Power Indicator	On	Blinking	Amber
Power Consumption	43.8 W	1W or lower	0.3 W

- The displayed power consumption level can vary in different operating conditions or when settings are changed.
- To reduce the power consumption to 0 watts, turn off the power switch on the back of the product or disconnect the power cable. Be sure to disconnect the power cable when you will not be using the product for an extended period of time. To reduce the power consumption to 0 watts when the power switch is not available, disconnect the power cable.

10.3 Standard Signal Mode Table

This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Therefore, a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for the screen size of your product.

If a signal that belongs to the following standard signal modes is transmitted from your PC, the screen will automatically be adjusted. If the signal transmitted from the PC does not belong to the standard signal modes, the screen may be blank with the power LED on. In such a case, change the settings according to the following table by referring to the graphics card user manual.

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA,1440 x 900	55.935	59.887	106.500	-/+
VESA,1600 x 1200	75.000	60.000	162.000	+/+
VESA,1680 x 1050	65.290	59.954	146.250	-/+
VESA,1920 x 1080	67.500	60.000	148.500	+/+

- Horizontal Frequency

  The time required to scan a single line from the left to the right side of the screen is called a horizontal cycle. The reciprocal number of a horizontal cycle is called horizontal frequency. Horizontal frequency is measured in kHz.

- Vertical Frequency

  Repeating the same picture dozens of times per second allows you to view natural pictures. The repeat frequency is called "vertical frequency" or "refresh rate" and is indicated in Hz.

Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

NORTH AMERICA		
CANADA	1-800-SAMSUNG (726-7864)	http://www.samsung.com
MEXICO	01-800-SAMSUNG (726-7864)	http://www.samsung.com
U.S.A	1-800-SAMSUNG (726-7864)	http://www.samsung.com

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BRAZIL	0800-124-421 4004-0000	http://www.samsung.com
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DOMINICA	1-800-751-2676	http://www.samsung.com
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EL SALVADOR	800-6225	http://www.samsung.com
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BAHRAIN	8000-4726	http://www.samsung.com
EGYPT	08000-726786	http://www.samsung.com
JORDAN	800-22273	http://www.samsung.com
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Terminology

OSD(On Screen Display)

On screen display (OSD) allows you to configure on-screen settings to optimize the picture quality as required. It allows you to change the screen brightness, tint, size and many other settings using menus displayed on the screen.

HUB

HUB refers to a device that is a common connection point for multiple devices connected over a network. It is used to connect multiple PCs, video devices, office devices and/or LANs over a single network.

Coarse

Coarse refers to the frequency of radio wave vibrations per second. A higher frequency transmits a larger amount of data and is reflected easier. A lower frequency traverses obstacles more easily and can travel farther, but it transmits a smaller amount of data. The Coarse menu allows you to manually adjust the frequency to obtain the optimum picture quality. Adjust Coarse referring to Standard Signal Mode Table (80page) according to the performance of your product and enjoy improved picture quality.

Gamma

The Gamma menu adjusts the grey scale that represents middle tones on the screen. Adjusting the brightness brightens the whole screen, but adjusting Gamma only brightens the medium brightness.

Grey scale

Scale refers to levels of color intensity that show variations of color change from darker areas to brighter areas on the screen. Changes to the screen brightness are expressed with black and white variation, and grey scale refers to the medium area between black and white. Changing the grey scale through Gamma adjustment will change the medium brightness on the screen.

Scanning rate

Scanning rate, or refresh rate, refers to the frequency of screen refreshes. Screen data is transmitted as it refreshes to display an image, although the refreshing is invisible to the naked eye. The number of screen refreshes is called scanning rate and is measured in Hz. A scanning rate of 60Hz means that the screen refreshes 60 times per second. The screen scanning rate depends on the performance of the graphics cards in your PC and monitor.

Horizontal Frequency

Characters or images displayed on the monitor screen consist of numerous dots (pixels). Pixels are transmitted in horizontal lines, which are then arranged vertically to create an image. The horizontal frequency is measured in kHz and represents how many times horizontal lines per second are transmitted and displayed on the monitor screen. A horizontal frequency of 85 means that the horizontal lines that make up an image are transmitted 85 000 times per second, and the horizontal frequency is indicated in 85kHz.

Vertical Frequency

One image is made of numerous horizontal lines. The vertical frequency is measured in Hz and represents how many images can be created per second by those horizontal lines. A vertical frequency of 60 means that an image is transmitted 60 times per second. The vertical frequency is also called "refresh rate" and affects screen flicker.

Resolution

Resolution is the number of horizontal pixels and vertical pixels that form a screen. It represents the level of display detail.

A higher resolution displays a greater amount of information on the screen and is suitable for performing multiple tasks at the same time.

E.g. A resolution of 1920 x 1080 consists of 1,920 horizontal pixels (horizontal frequency) and 1,080 vertical lines (vertical resolution).

Plug & Play

The Plug & Play feature allows the automatic exchange of information between a monitor and PC to produce an optimum display environment.

The monitor uses VESA DDC (international standard) to execute Plug & Play.

Index

A

About "Central Station" 26

Auto Adjustment 56

B

Before Connecting 35

Blue 53

Brightness 47

C

Checking the Contents 18

Cleaning 3

Coarse 49

Color Tone 54

Configuring Brightness in the Startup Screen 71

Configuring HUB in the Initial Screen 72

Configuring Volume in the Startup Screen 72

Connecting and Using a PC 36

Connecting Headphones 43

Connecting the Product to a PC to Use "Central Station" 27

Connecting to a Video Device 43

Contrast 48

Copyright 2

Correct posture to use the product 12

F

Fine 50

G

Gamma 55

General 78

Green 52

H

HDMI Black Level 51

Horizontal Position 57

I

INFORMATION 71

M

MAGIC 44

Menu H-Position 59

Menu V-Position 60

P

Parts 20

PowerSaver 79

Q

Q & A 76

R

Red 52

Requirements Before Contacting Samsung Customer Service Center 73

Response Time 50

S

Safety Precautions 4

Sharpness 48

Size 56

Software Installation for Using "Central Station" 26

Standard Signal Mode Table 80

T

Terminology 83

Index

U

Utilizing "Central Station" 28

V

Vertical Position 58